

접 수 번 호 : 23-011998-02-1  
(Receipt No.)



# 안 전 인 증 서

## Safety Certificate

안 전 인 증 번 호 : SU10509-16019C  
(Certificate No.)

제 조 업 자/수 입 업 자 명 : SuZhou MEAN WELL Technology Co., Ltd.  
(Manufacturer/importer)

주 소 : No.269, ChangPing Road, Huangdai Town, Xiangcheng District,  
(Address) Suzhou, China

제 품 명 : 직류전원장치(AC/DC Switching Adaptor)  
(Product)

기 본 모 델 명 : GST60A07  
(Basic Model)

파 생 모 델 명 : GST60A05  
(Series Model)

정격/안전기준상의 모델구분 : 100-240 Vac, 50/60 Hz, 1.4 A, Class I  
(Rating) (Output: 7.5 Vdc, 6.0 A, 45 W MAX.)

시 험 기 준 : KC62368-1(2021-08)  
(Standard)

본 인증서는 제 조 국 명 : 중국  
제 조 업 자 명 : SuZhou MEAN WELL Technology Co., Ltd.  
제조공장의 주소 : No.269, ChangPing Road, Huangdai Town, Xiangcheng District, Suzhou, China  
의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항, 제4항, 제10조제2항 또는 제15조제2항에 따라 안전인증서를 발급합니다.

We Issue This Safety Certificate for the above appliances in accordance with the Article 9(2), 9(4), 10(2) or 15(2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2023 년 03 월 24 일  
Year month day

한국산업기술시험원  
KOREA TESTING LABORATORY



※ 이 인증서는 「전기용품 및 생활용품 안전관리법 시행규칙」에 따른 제품의 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

첨부서류

1. 전기용품의 안전관리부품 및 재질목록(List of Critical Components)
2. 기본모델·파생모델의 내용 (Descriptions of the basic and series model)
3. 안전인증의 변경 현황 (Revisions Status)

□ 첨부 1 : 전기용품의 안전관리부품 및 재질목록  
List of Critical Components

| 부품명(회로기호)<br>Component(Part no.)         | 제조사(상표명)<br>Manufacturer(Brand)                    | 모델명(형식)<br>Model(Type)                         | 정격 또는 특성<br>Rating or Characteristics | 인증마크<br>Tested by |
|------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------|-------------------|
| Plastic Enclosure                        | Sabic Innovative Plastics                          | 940, 945                                       | V-0, 120 °C, min. 1.8 mm thick        | UL                |
| AC Inlet                                 | Rong Feng Industrial Co., Ltd.                     | SS-120                                         | 10 A, 250 Vac                         | VDE               |
| (Alternate)                              | TECX-UNIONS Technology Corporation                 | TU-301-A<br>TU-301-AP<br>TU-301-S<br>TU-301-SP | 10 A, 250 Vac                         | VDE               |
| (Alternate)                              | Rong Feng Industrial Co., Ltd.                     | SS-3B                                          | 16 A, 250 Vac                         | VDE               |
| Fuse (FS1)                               | Littelfuse, Inc.                                   | 392                                            | T2 A, 250 Vac                         | VDE               |
| (Alternate)                              | Ever Island Electric Co., Ltd. and Walter Electric | 2010 Serie(s)                                  | T2 A, 250 Vac                         | VDE               |
| (Alternate)                              | Conquer                                            | MST                                            | T2 A, 250 Vac                         | VDE               |
| Choke (LF1) (Optional)                   | Mean Well                                          | TR-790                                         | Min. 130 °C                           | --                |
| X-Capacitor (C1) (0.1-1.5 uF) (Optional) | Kemet Electronics Italia Srl (Arcotronics SPA)     | R.46                                           | Min. 250 Vac, 110 °C                  | ENEC              |
| (Alternate)                              | Kemet Electronics Italia Srl (Arcotronics SPA)     | R.49                                           | Min. 250 Vac, 110 °C                  | ENEC              |
| (Alternate)                              | EPCOS Electronic Components S.A.                   | B3292#                                         | Min. 250 Vac, 105 °C                  | VDE               |
| (Alternate)                              | ISKRA SISTEMI, d.d.                                | KNB 1530                                       | Min. 250 Vac, 100 °C                  | VDE               |
| (Alternate)                              | ISKRA SISTEMI, d.d.                                | KNB 1560                                       | Min. 250 Vac, 125 °C                  | VDE               |
| (Alternate)                              | Liow Gu Electronics Industry Co. Ltd.              | GS-L                                           | Min. 250 Vac, 110 °C                  | ENEC              |
| (Alternate)                              | Pilkor Electronics Ltd.                            | PCX2 335M                                      | Min. 250 Vac, 105 °C                  | ENEC              |
| (Alternate)                              | Pilkor Electronics Ltd.                            | PCX2 337                                       | Min. 250 Vac, 110 °C                  | ENEC              |

| 부품명(회로기호)<br>Component(Part no.)                                                                                                                     | 제조사(상표명)<br>Manufacturer(Brand)            | 모델명(형식)<br>Model(Type) | 정격 또는 특성<br>Rating or Characteristics | 인증마크<br>Tested by |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------------------|---------------------------------------|-------------------|
| (Alternate)                                                                                                                                          | VISHAY<br>Capacitors<br>Belgium NV         | 339                    | Min. 250 Vac,<br>110 °C               | ENEC              |
| (Alternate)                                                                                                                                          | Cheng Tung<br>Industrial<br>Co., Ltd.      | CTX                    | Min. 250 Vac,<br>110 °C               | VDE               |
| (Alternate)                                                                                                                                          | Shiny Space<br>Enterprise Co.,<br>Ltd.     | SX1                    | Min. 250 Vac,<br>100 °C               | ENEC              |
| (Alternate)                                                                                                                                          | Xiamen<br>Faratronic                       | MKP62                  | Min. 250 Vac,<br>110 °C               | VDE               |
| (Alternate)                                                                                                                                          | Hua Jung                                   | MKP                    | Min. 250 Vac,<br>110 °C               | ENEC              |
| (Alternate)                                                                                                                                          | Carli                                      | MPX                    | Min. 250 Vac,<br>110 °C               | VDE               |
| (Alternate)                                                                                                                                          | EPCOS<br>Electronic<br>Components<br>S.A.  | B3292#CD<br>series     | Min. 250 Vac,<br>110 °C               | ENEC              |
| (Alternate)                                                                                                                                          | Joey                                       | MPX                    | Min. 250 Vac,<br>105 °C               | VDE               |
| (Alternate)                                                                                                                                          | Ultra Tech Xiphi<br>Enterprise Co.<br>Ltd. | HQX                    | Min. 250 Vac,<br>100 °C               | VDE               |
| Choke (LF2)<br>(Optional)                                                                                                                            | Mean Well                                  | TR-733                 | Min. 130 °C                           |                   |
| Y-Capacitors<br>(C30, C31, C32,<br>C34)<br>- C30= C31=<br>C32= max.<br>4700 pF<br>(optional)<br>- C34= max.<br>10000 pF<br>(optional or<br>bypassed) | Murata Mfg. Co.,<br>Ltd.                   | KX                     | Min. 250 Vac,<br>125 °C               | VDE               |
| (Alternate)                                                                                                                                          | TDK-EPC<br>Corporation                     | CD                     | Min. 250 Vac,<br>125 °C               | VDE               |
| (Alternate)                                                                                                                                          | Walsin<br>Technology<br>Corp               | AH<br>AC(Y2 type)      | Min. 250 Vac,<br>125 °C               | VDE               |
| (Alternate)                                                                                                                                          | Welson<br>Industrial Co.,<br>Ltd.          | WD                     | Min. 250 Vac,<br>125 °C               | VDE               |

| 부품명(회로기호)<br>Component(Part no.)                                    | 제조사(상표명)<br>Manufacturer(Brand)                              | 모델명(형식)<br>Model(Type)                              | 정격 또는 특성<br>Rating or Characteristics | 인증마크<br>Tested by            |
|---------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------|---------------------------------------|------------------------------|
| Bridge Capacitor (C33)<br>(Optional)<br>(Max. 2200 pF)<br>(Y1 type) | Murata Mfg. Co., Ltd.                                        | KX                                                  | Min. 250 Vac,<br>125 °C               | VDE                          |
| (Alternate)                                                         | TDK                                                          | CD                                                  | Min. 250 Vac,<br>125 °C               | VDE                          |
| (Alternate)                                                         | Walsin Technology Corp                                       | AH                                                  | Min. 250 Vac,<br>125 °C               | VDE                          |
| (Alternate)                                                         | Welson Industrial Co., Ltd.                                  | WD                                                  | Min. 250 Vac,<br>125 °C               | VDE                          |
| Photo Coupler (U3)                                                  | Lite-On Technology Corporation                               | LTV-817,<br>LTV-817M,                               | Reinforced insulation                 | VDE, FIMKO                   |
| (Alternate)                                                         | Sharp Corporation Electronic Components and Devices Division | PC123                                               | Reinforced insulation                 | VDE, Semko                   |
| (Alternate)                                                         | COSMO Electronics Corporation                                | K1010                                               | Reinforced insulation                 | VDE, Semko                   |
| (Alternate)                                                         | Toshiba Corp, Semiconductor Co Discrete Semiconductor Div    | TLP785F                                             | Reinforced insulation                 | VDE                          |
| (Alternate)                                                         | Toshiba Corp, Semiconductor Co Discrete Semiconductor Div    | TLP785                                              | Reinforced insulation                 | VDE                          |
| (Alternate)                                                         | Toshiba Corp, Semiconductor Co Discrete Semiconductor Div    | TLP781F                                             | Reinforced insulation                 | VDE                          |
| (Alternate)                                                         | Toshiba Corp, Semiconductor Co Discrete Semiconductor Div    | TLP781                                              | Reinforced insulation                 | VDE                          |
| Transformer (T1)<br>(for Models GST60Ax)                            | Long Sail Electronic Co., Ltd.                               | TF-1738A<br>(for x= 05),<br>TF-1739A<br>(for x= 07) | Class B                               | Accepted by<br>TÜV Rheinland |



| 부품명(회로기호)<br>Component(Part no.)                                                   | 제조사(상표명)<br>Manufacturer(Brand) | 모델명(형식)<br>Model(Type)                              | 정격 또는 특성<br>Rating or Characteristics | 인증마크<br>Tested by         |
|------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------|---------------------------------------|---------------------------|
| (Alternate)                                                                        | Jet Signal Industries Co., Ltd. | TF-1738A<br>(for x= 05),<br>TF-1739A<br>(for x= 07) | Class B                               | Accepted by TÜV Rheinland |
| (Alternate)                                                                        | Mean Well                       | TF-1738A<br>(for x= 05),<br>TF-1739A<br>(for x= 07) | Class B                               | Accepted by TÜV Rheinland |
| PCB                                                                                | SHUNDE JUNDA ELECTRONIC CO LTD  | JD-D                                                | V-1 or better,<br>min. 130 °C         | UL                        |
| (Alternate)                                                                        | Interchangeable                 | Interchangeable                                     | V-1 or better,<br>min. 130 °C         | UL                        |
| Bleeder Resistors<br>(R12, R15 for layout type A)<br>(R15 for layout type B and C) | Walsin Technology Corporation   | WF Series                                           | Total 120-200 kΩ ,<br>min. 1/4 W      | UL                        |
| (Alternate)                                                                        | Tzai Yuan Enterprise Co.,Ltd    | SMD 1206*****                                       | Total 120-200 kΩ ,<br>min. 1/4 W      | UL                        |
| (Alternate)                                                                        | Ever Ohms Technology Co Ltd     | HR Series                                           | Total 120-200 kΩ ,<br>min. 1/4 W      | UL                        |
| Bleeder Resistors<br>(R12, R15 for layout type D)                                  | Walsin Technology Corporation   | WF Series                                           | Total 120-200 kΩ ,<br>min. 1/4 W      | UL                        |
| (Alternate)                                                                        | Tzai Yuan Enterprise Co.,Ltd    | SMD 1206*****                                       | Total 120-200 kΩ ,<br>min. 1/4 W      | UL                        |
| (Alternate)                                                                        | Ever Ohms Technology Co Ltd     | HR Series                                           | Total 120-200 kΩ ,<br>min. 1/4 W      | UL                        |

| 부품명(회로기호)<br>Component(Part no.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 제조사(상표명)<br>Manufacturer(Brand) | 모델명(형식)<br>Model(Type) | 정격 또는 특성<br>Rating or Characteristics | 인증마크<br>Tested by |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------|---------------------------------------|-------------------|
| <p><input type="checkbox"/> 유의사항 (Attention) :</p> <p>1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장검사 시 확인 관리 하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등재를 원하시는 경우는 안전인증기관에 인증변경신청을 하여야 합니다.</p> <p><i>As the "Critical components" are parts in directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying multiple listing or changing the items above, the certification revision shall be applied.</i></p> <p>2. 인증변경신청 없이 임의로 변경하는 경우는, 전기용품 및 생활용품 안전관리법 시행규칙 제 20 조제 1 항 또는 제 36 조제 1 항 규정에 의한 안전인증 취소 혹은 안전확인신고 효력상실 사유가 됨을 유의하시기 바랍니다.</p> <p><i>The Safety Certification will be cancelled under the Article 20(1), 36(1) of the Enforcement Rule of the Electrical appliances and Consumer Products Safety Control Act if the contents of the Certification is altered without our authorization.</i></p> |                                 |                        |                                       |                   |

FP511-04

☐ 첨부 2 : 기본모델 · 파생모델의 내용  
Description of the basic and series model

| 파생모델명<br>Derivative model                                                                                                                                                                                                                                                                                                                                       | 기본모델과의 차이점<br>Differences between the basic and derivative model(s)                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| GST60A05                                                                                                                                                                                                                                                                                                                                                        | Same as basic model except for transformer type, output rating and model designation.<br>Output rating: 5 Vdc, 6.0 A, 30 W MAX. |
| 제품특기사항 및 시험조건<br>Remarks & Test conditions                                                                                                                                                                                                                                                                                                                      |                                                                                                                                 |
| <p>1. Test Report Ref. No. : 16-031672-01 (2016.10.10)</p> <p>2. Product Description</p> <ul style="list-style-type: none"> <li>- Measured power consumption: 49 W</li> <li>- Class of equipment: Class I</li> <li>- Protection against ingress of water: IPX0</li> <li>- Mass of equipment (kg): 0.3 kg</li> </ul>                                             |                                                                                                                                 |
| <p><input type="checkbox"/> 본 제품의 검토내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하시기 바랍니다.<br/>검토 담당자 : 고객지원본부 인증융합평가센터 장 재용 / 02-8601-137</p> <p><input type="checkbox"/> If you have any question on product review, please contact the person below :<br/>Job holder: Customer Support Division, Certification Convergence Evaluation Center, J.Y. Jang / +82 2 860-1137</p> |                                                                                                                                 |

FP511-05

□ 첨부 3 : 안전인증의 변경 현황  
Revisions Status

| 변경발급 내용<br>Contents of Certificate Revisions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1<sup>st</sup> Rev.) Change of X-Capacitor (C1) (18-001463-01-2: 2018.01.15)</p> <ul style="list-style-type: none"> <li>- X-Capacitor (C1) Optional</li> <li>- Change of Capacitance for X-Capacitor (C1)<br/>(except for model MXP (Joey), HQX (Ultra Tech Xiphi Enterprise Co., Ltd.)):<br/>From 0.47 uF to Max. 2.2 uF</li> <li>- Change of Capacitance for X-Capacitor (C1)<br/>(for model MXP (Joey), HQX (Ultra Tech Xiphi Enterprise Co., Ltd.) only):<br/>From 0.47 uF to Max. 1.0 uF</li> </ul> <p>2<sup>nd</sup> Rev.) Change of manufacturer president and address (22-081377-30-1 : 2023.02.21.)</p> <ul style="list-style-type: none"> <li>- Before : Mr. Jerry Lin /<br/>No. 77, Jian-Min Road, Dong-Qiao, Pan-Yang Ind. Park, Huang-Dai Town, Xiang<br/>Cheng District, Suzhou, Jiangsu 215152, P.R. China</li> <li>- After : Alan Liu /<br/>No.269, ChangPing Road, Huangdai Town, Xiangcheng District, Suzhou, China</li> </ul> <p>3<sup>rd</sup> Rev.) Change of PCB layout and addition of components (23-011998-02-1 : 2023.03.24.)</p> <ul style="list-style-type: none"> <li>- KC standard update : K 60950-1 → KC 62368-1</li> <li>- Update component list</li> <li>- CB Certificate Ref. No.: JPTUV-132693-M1 (TÜV Rheinland Japan Ltd.)</li> <li>- CB Test Report No.: CN22RVZ6 002 (TÜV Rheinland Shanghai Co., Ltd.)</li> </ul> |

FP511-06



접수번호 : 22-081377-30-1  
(Receipt No.)



# 안전인증서

## Safety Certificate

안전인증번호 : SU10509-16019B  
(Certificate No.)

제조사/수입업자명 : SuZhou MEAN WELL Technology Co., Ltd.  
(Manufacturer/importer)

주소 : No.269, ChangPing Road, Huangdai Town, Xiangcheng District,  
(Address) Suzhou, China

제품명 : 직류전원장치(AC/DC Switching Adaptor)  
(Product)

기본모델명 : GST60A07  
(Basic Model)

파생모델명 : GST60A05  
(Series Model)

정격/안전기준상의 모델구분 : 100-240 Vac, 50/60 Hz, 1.4 A, Class I  
(Rating) (Output: 7.5 Vdc, 6.0 A, 45 W MAX.)

시험기준 : K60950-1(2011-12)  
(Standard)

본 인증서는 제조국명 : 중국  
제조사명 : SuZhou MEAN WELL Technology Co., Ltd.  
제조공장의 주소 : No.269, ChangPing Road, Huangdai Town, Xiangcheng District, Suzhou, China  
의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항, 제4항, 제10조제2항 또는 제15조제2항에 따라 안전인증서를 발급합니다.

We Issue This Safety Certificate for the above appliances in accordance with the Article 9(2), 9(4), 10(2) or 15(2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2023 년 02 월 21 일  
Year month day

한국산업기술시험원  
KOREA TESTING LABORATORY



\* 이 인증서는 「전기용품 및 생활용품 안전관리법 시행규칙」에 따른 제품의 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

첨부서류

1. 전기용품의 안전관리부품 및 재질목록(List of Critical Components)
2. 기본모델·파생모델의 내용 (Descriptions of the basic and series model)
3. 안전인증의 변경 현황 (Revisions Status)



□ 첨부 1 : 전기용품의 안전관리부품 및 재질목록  
List of Critical Components

| 부품명(회로기호)<br>Component(Part no.)            | 제조사(상표명)<br>Manufacturer(Brand)                    | 모델명(형식)<br>Model(Type)                            | 정격 또는 특성<br>Rating or Characteristics             | 인증마크<br>Tested by |
|---------------------------------------------|----------------------------------------------------|---------------------------------------------------|---------------------------------------------------|-------------------|
| Plastic Enclosure                           | Sabic Innovative Plastics                          | 945, 940                                          | V-0, 120 °C, min.<br>1.8 mm thick                 | UL                |
| AC Inlet                                    | Pronic Electronics (Shenzhen) Co., Ltd.            | PST-101                                           | 10 A, 250 Vac                                     | VDE               |
| (Alternate)                                 | Rong Feng Industrial Co., Ltd.                     | SS-120                                            | 10 A, 250 Vac                                     | VDE               |
| (Alternate)                                 | TECX-UNIONS Technology Corporation                 | TU-301-A,<br>TU-301-AP,<br>TU-301-S,<br>TU-301-SP | 10 A, 250 Vac                                     | VDE               |
| (Alternate)                                 | Rong Feng Industrial Co., Ltd.                     | SS-3B                                             | 16 A, 250 Vac                                     | VDE               |
| Fuse (FS1)                                  | Littelfuse Inc.                                    | 392                                               | T 2 A, 250 V                                      | VDE               |
| (Alternate)                                 | Ever Island Electric Co., Ltd. and Walter Electric | 2010 Serie(s)                                     | T 2 A, 250 V                                      | VDE               |
| (Alternate)                                 | Conquer                                            | MST                                               | T 2 A, 250 V                                      | VDE               |
| X-Capacitor (C1) (Optional) (X1 or X2 type) | Kemet Electronics Italia Srl (Arcotronics SPA)     | R.46                                              | Max. 2.2 uF,<br>Min. 250 Vac,<br>110/125 °C       | ENEC              |
| (Alternate)                                 | Kemet Electronics Italia Srl (Arcotronics SPA)     | R.49                                              | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C           | ENEC              |
| (Alternate)                                 | EPCOS Electronic Components S.A.                   | B3292#                                            | Max. 2.2 uF,<br>Min. 250 Vac,<br>105 °C           | VDE               |
| (Alternate)                                 | ISKRA SISTEMI, d.d.                                | KNB 1530                                          | Max. 2.2 uF,<br>Min. 250 Vac,<br>100 °C           | VDE               |
| (Alternate)                                 | ISKRA SISTEMI, d.d.                                | KNB 1560                                          | Max. 2.2 uF,<br>275 V, 110 °C or<br>300 V, 125 °C | VDE               |
| (Alternate)                                 | Liow Gu Electronics Industry Co. Ltd.              | GS-L                                              | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C           | ENEC              |
| (Alternate)                                 | Pilkor Electronics Ltd.                            | PCX2 335M                                         | Max. 2.2 uF,<br>Min. 250 Vac,<br>105 °C           | ENEC              |
| (Alternate)                                 | Pilkor Electronics Ltd.                            | PCX2 337                                          | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C           | ENEC              |

| 부품명(회로기호)<br>Component(Part no.)                      | 제조사(상표명)<br>Manufacturer(Brand)         | 모델명(형식)<br>Model(Type) | 정격 또는 특성<br>Rating or Characteristics                                                | 인증마크<br>Tested by |
|-------------------------------------------------------|-----------------------------------------|------------------------|--------------------------------------------------------------------------------------|-------------------|
| (Alternate)                                           | VISHAY<br>Capacitors<br>Belgium NV      | 339                    | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C                                              | ENEC              |
| (Alternate)                                           | Cheng Tung<br>Industrial Co., Ltd.      | CTX                    | Max. 2.2 uF,<br>Min. 250 Vac,<br>100 °C                                              | VDE               |
| (Alternate)                                           | Shiny Space<br>Enterprise<br>Co., Ltd.  | SX1                    | Max. 2.2 uF,<br>Min. 250 Vac,<br>100 °C                                              | VDE               |
| (Alternate)                                           | Xiamen<br>Faratronic                    | MKP62                  | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C                                              | VDE               |
| (Alternate)                                           | Hua Jung                                | MKP                    | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C                                              | VDE               |
| (Alternate)                                           | Carli                                   | MPX                    | Max. 2.2 uF,<br>Min. 250 Vac,<br>100 or 110 °C                                       | VDE               |
| (Alternate)                                           | EPCOS Electronic<br>Components S.A.     | B3292#CD series        | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C                                              | ENEC              |
| (Alternate)                                           | Joey                                    | MPX                    | Max. 1.0 uF,<br>Min. 250 Vac,<br>105 °C                                              | VDE               |
| (Alternate)                                           | Ultra Tech Xiphi<br>Enterprise Co. Ltd. | HQX                    | Max. 1.0 uF,<br>Min. 250 Vac,<br>100 °C                                              | VDE               |
| Y-Capacitors<br>(C30, C31, C32,<br>C34)<br>(Y1 or Y2) | Murata Mfg.<br>Co., Ltd.                | KH, KX, KY             | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C | VDE               |
| (Alternate)                                           | TDK-EPC<br>Corporation                  | CD, CS                 | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C | VDE               |
| (Alternate)                                           | Walsin<br>Technology Corp               | AH, AC                 | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C | VDE               |

| 부품명(회로기호)<br>Component(Part no.)       | 제조사(상표명)<br>Manufacturer(Brand)                              | 모델명(형식)<br>Model(Type)          | 정격 또는 특성<br>Rating or Characteristics                                                 | 인증마크<br>Tested by |
|----------------------------------------|--------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------|-------------------|
| (Alternate)                            | Welson Industrial Co., Ltd.                                  | WD, KL                          | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C  | VDE               |
| (Alternate)                            | VISHAT                                                       | 338 6                           | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C  | VDE               |
| Bridge Capacitor<br>(C33)<br>(Y1 type) | Murata Mfg. Co., Ltd.                                        | KX                              | Max. 2200 pF,<br>Min. 250 Vac,<br>125 °C                                              | VDE               |
| (Alternate)                            | TDK-EPC Corporation                                          | CD                              | Max. 2200 pF,<br>Min. 250 Vac,<br>125 °C                                              | VDE               |
| (Alternate)                            | Walsin Technology Corp                                       | AH                              | Max. 2200 pF,<br>Min. 250 Vac,<br>125 °C                                              | VDE               |
| (Alternate)                            | Welson Industrial Co., Ltd.                                  | WD                              | Max. 2200 pF,<br>Min. 250 Vac,<br>125 °C                                              | VDE               |
| Photo Coupler<br>(U3)                  | Lite-On Technology Corporation                               | LTV-817,<br>LTV-817M,<br>LTV817 | Dti=0.4 mm,<br>Int. dcr=5.2 mm,<br>Ext. dcr=7.0mm,<br>thermal cycling<br>test, 115 °C | VDE, FIMKO        |
| (Alternate)                            | Sharp Corporation Electronic Components and Devices Division | PC123                           | Dti=0.4 mm,<br>Ext. dcr=8.0 mm,<br>thermal cycle<br>test, 110 °C                      | VDE, Semko        |
| (Alternate)                            | COSMO Electronics Corporation                                | K1010                           | Dti=0.7 mm,<br>Ext. dcr=8.0 mm,<br>thermal cycle<br>test, 100 °C                      | VDE, Semko        |
| (Alternate)                            | Toshiba Corp, Semiconductor Co Discrete Semiconductor Div    | TLP785F                         | Di=0.6 mm,<br>Int. dcr=5.0 mm,<br>Ext. dcr=8 mm,<br>thermal cycling<br>test, 115 °C   | VDE               |
| (Alternate)                            | Toshiba Corp, Semiconductor Co Discrete Semiconductor Div    | TLP785                          | Di=0.6 mm,<br>Int. dcr=5.0 mm,<br>Ext. dcr=6.5 mm,<br>thermal cycling<br>test, 115 °C | VDE               |



| 부품명(회로기호)<br>Component(Part no.)               | 제조사(상표명)<br>Manufacturer(Brand)                                       | 모델명(형식)<br>Model(Type) | 정격 또는 특성<br>Rating or Characteristics                                                 | 인증마크<br>Tested by        |
|------------------------------------------------|-----------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------|--------------------------|
| (Alternate)                                    | Toshiba Corp,<br>Semiconductor<br>Co Discrete<br>Semiconductor<br>Div | TLP781F                | Di=0.6 mm,<br>Int. dcr=5.0 mm,<br>Ext. dcr=8 mm,<br>thermal cycling<br>test, 115 °C   | VDE                      |
| (Alternate)                                    | Toshiba Corp,<br>Semiconductor<br>Co Discrete<br>Semiconductor<br>Div | TLP781                 | Di=0.6 mm,<br>Int. dcr=5.0 mm,<br>Ext. dcr=6.5 mm,<br>thermal cycling<br>test, 115 °C | VDE                      |
| Transformer<br>(T1)<br>(for model<br>GST60A07) | Long Sail<br>Electronic<br>Co., Ltd.                                  | TF-1739A               | Class B                                                                               | Tested with<br>appliance |
| (Alternate)                                    | Jet Signal<br>Industries<br>Co., Ltd.                                 | TF-1739A               | Class B                                                                               | Tested with<br>appliance |
| (Alternate)                                    | Mean Well                                                             | TF-1739A               | Class B                                                                               | Tested with<br>appliance |
| Transformer<br>(T1)<br>(for model<br>GST60A05) | Long Sail<br>Electronic<br>Co., Ltd.                                  | TF-1738A               | Class B                                                                               | Tested with<br>appliance |
| (Alternate)                                    | Jet Signal<br>Industries<br>Co., Ltd.                                 | TF-1738A               | Class B                                                                               | Tested with<br>appliance |
| (Alternate)                                    | Mean Well                                                             | TF-1738A               | Class B                                                                               | Tested with<br>appliance |
| Discharging IC<br>(U1)                         | NXP<br>Semiconductor<br>Taiwan Ltd.                                   | TEA18362T              | 100-240 Vac,<br>47-63 Hz.<br>X-Caps.:<br>0.22- 2.2 µF.<br>Resistors:<br>120- 200 kΩ   | DEMKO                    |
| PCB                                            | Interchangeable                                                       | Interchangeable        | V-1 or better,<br>min. 130 °C                                                         | UL                       |
| Bleeder Resistors<br>(R12, R15)                | Interchangeable                                                       | Interchangeable        | Total 120-200kΩ ,<br>max. 1/4 W                                                       | Tested with<br>appliance |

| 부품명(회로기호)<br>Component(Part no.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 제조사(상표명)<br>Manufacturer(Brand) | 모델명(형식)<br>Model(Type) | 정격 또는 특성<br>Rating or Characteristics | 인증마크<br>Tested by |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------|---------------------------------------|-------------------|
| <div> <input type="checkbox"/> 유의사항 (Attention) : </div> <ol style="list-style-type: none"> <li> <p>안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장검사 시 확인 관리 하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등록을 원하시는 경우는 안전인증기관에 인증변경신청을 하여야 합니다.</p> <p><i>As the "Critical components" are parts in directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying multiple listing or changing the items above, the certification revision shall be applied.</i></p> </li> <li> <p>인증변경신청 없이 임의로 변경하는 경우는, 전기용품 및 생활용품 안전관리법 시행규칙 제 20 조제 1 항 또는 제 36 조제 1 항 규정에 의한 안전인증 취소 혹은 안전확인신고 효력상실 사유가 됨을 유의하시기 바랍니다.</p> <p><i>The Safety Certification will be cancelled under the Article 20(1), 36(1) of the Enforcement Rule of the Electrical appliances and Consumer Products Safety Control Act if the contents of the Certification is altered without our authorization.</i></p> </li> </ol> |                                 |                        |                                       |                   |

FP511-04



☐ 첨부 2 : 기본모델 · 파생모델의 내용  
Description of the basic and series model

| 파생모델명<br>Derivative model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 기본모델과의 차이점<br>Differences between the basic and derivative model(s)                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| GST60A05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Same as basic model except for transformer type, output rating and model designation.<br>Output rating: 5 Vdc, 6.0 A, 30 W MAX. |
| 제품특기사항 및 시험조건<br>Remarks & Test conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                 |
| <p>1. Test Report Ref. No. : 16-031672-01 (2016.10.10)</p> <p>2. Product Description</p> <ul style="list-style-type: none"> <li>- Measured power consumption: 49 W</li> <li>- Class of equipment: Class I</li> <li>- Protection against ingress of water: IPX0</li> <li>- Mass of equipment (kg): 0.3 kg</li> </ul> <p>□ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다.<br/>시험 담당자 / 연락처 : 디지털산업본부 전기전자기술센터 박 일우 / 02-860-1436</p> <p>□ If you have any question on product testing, please contact the person below :<br/>Job holder : S.M.A.R.T. Industry Division, Electrical and Electronic Technology Center, Park Il-Woo / +82 2 860-1436</p> |                                                                                                                                 |

FP511-05

☐ 첨부 3 : 안전인증의 변경 현황  
Revisions Status

| 변경발급 내용<br>Contents of Certificate Revisions                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1<sup>st</sup> Rev.) Change of X-Capacitor (C1) (18-001463-01-2: 2018.01.15)</p> <ul style="list-style-type: none"> <li>- X-Capacitor (C1) Optional</li> <li>- Change of Capacitance for X-Capacitor (C1)<br/>(except for model MXP (Joey), HQX (Ultra Tech Xiphi Enterprise Co., Ltd.)):<br/>From 0.47 uF to Max. 2.2 uF</li> <li>- Change of Capacitance for X-Capacitor (C1)<br/>(for model MXP (Joey), HQX (Ultra Tech Xiphi Enterprise Co., Ltd.) only):<br/>From 0.47 uF to Max. 1.0 uF</li> </ul> |

변경발급 내용  
Contents of Certificate Revisions

2<sup>nd</sup> Rev.) Change of manufacturer president and address (22-081377-30-1 : 2023.02.21.)

- Before : Mr. Jerry Lin /

No. 77, Jian-Min Road, Dong-Qiao, Pan-Yang Ind. Park, Huang-Dai Town, Xiang  
Cheng District, Suzhou, Jiangsu 215152, P.R. China

After : Alan Liu /

No.269, ChangPing Road, Huangdai Town, Xiangcheng District, Suzhou, China

FP511-06



접 수 번 호 : 18-001463-01-1  
(Receipt No.)



## 안 전 인 증 서

### Safety Certificate

안 전 인 증 번 호 : SU10509-16019A  
(Certificate No.)

제 조 업 자/수 입 업 자 명 : SuZhou MEAN WELL Technology Co., Ltd  
(Manufacturer/importer)

주 소 : No. 77, Jian-min Road, Dong-qiao, Pan-yang Ind. Park, Huang-dai  
(Address) Town, Xiang-cheng District, Suzhou, Jiangsu 215152, P.R. China

제 품 명 : 직류전원장치(AC/DC Switching Adaptor)  
(Product)

기 본 모 델 명 : GST60A07  
(Basic Model)

파 생 모 델 명 : GST60A05  
(Series Model)

정격/안전기준상의 모델구분 : 100-240 Vac, 50/60 Hz, 1.4 A, Class I  
(Rating) (Output: 7.5 Vdc, 6.0 A, 45 W MAX.)

시 험 기 준 : K60950-1(2011-12)  
(Standard)

본 인증서는 제 조 국 명 : 중국  
제 조 업 자 명 : SuZhou MEAN WELL Technology Co., Ltd.  
제조공장의 주소 : No. 77, Jian-Min Road, Dong-Qiao, Pan-Yang Ind. Park, Huang-Dai Town, Xiang-Cheng District, Suzhou, Jiangsu 215152, P.R. China  
의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항·제4항 또는 제10조제2항에 따라 안전인증서를 발급합니다.

We Issue This Safety Certificate for the above appliances in accordance with the Article 9(2),9(4) or10 (2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2018 년 01 월 16 일  
Year month day

한국산업기술시험원  
KOREA TESTING LABORATORY



※ 이 인증서는 「전기용품 및 생활용품 안전관리법 시행규칙」에 따른 제품의 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

첨부서류

1. 전기용품의 안전관리부품 및 재질목록(List of Critical Components)
2. 기본모델·파생모델의 내용 (Descriptions of the basic and series model)
3. 안전인증의 변경 현황 (Revisions Status)



□ 첨부 1 : 전기용품의 안전관리부품 및 재질목록  
List of Critical Components

| 부품명(회로기호)<br>Component(Part no.)                  | 제조사(상표명)<br>Manufacturer(Brand)                    | 모델명(형식)<br>Model(Type)                            | 정격 또는 특성<br>Rating or Characteristics             | 인증마크<br>Tested by |
|---------------------------------------------------|----------------------------------------------------|---------------------------------------------------|---------------------------------------------------|-------------------|
| Plastic Enclosure                                 | Sabic Innovative Plastics                          | 945, 940                                          | V-0, 120 °C, min.<br>1.8 mm thick                 | UL                |
| AC Inlet                                          | Pronic Electronics (Shenzhen) Co., Ltd.            | PST-101                                           | 10 A, 250 Vac                                     | VDE               |
| (Alternate)                                       | Rong Feng Industrial Co., Ltd.                     | SS-120                                            | 10 A, 250 Vac                                     | VDE               |
| (Alternate)                                       | TECX-UNIONS Technology Corporation                 | TU-301-A,<br>TU-301-AP,<br>TU-301-S,<br>TU-301-SP | 10 A, 250 Vac                                     | VDE               |
| (Alternate)                                       | Rong Feng Industrial Co., Ltd.                     | SS-3B                                             | 16 A, 250 Vac                                     | VDE               |
| Fuse (FS1)                                        | Littelfuse Inc.                                    | 392                                               | T 2 A, 250 V                                      | VDE               |
| (Alternate)                                       | Ever Island Electric Co., Ltd. and Walter Electric | 2010 Serie(s)                                     | T 2 A, 250 V                                      | VDE               |
| (Alternate)                                       | Conquer                                            | MST                                               | T 2 A, 250 V                                      | VDE               |
| X-Capacitor (C1)<br>(Optional)<br>(X1 or X2 type) | Kemet Electronics Italia Srl (Arcotronics SPA)     | R.46                                              | Max. 2.2 uF,<br>Min. 250 Vac,<br>110/125 °C       | ENEC              |
| (Alternate)                                       | Kemet Electronics Italia Srl (Arcotronics SPA)     | R.49                                              | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C           | ENEC              |
| (Alternate)                                       | EPCOS Electronic Components S.A.                   | B3292#                                            | Max. 2.2 uF,<br>Min. 250 Vac,<br>105 °C           | VDE               |
| (Alternate)                                       | ISKRA SISTEMI, d.d.                                | KNB 1530                                          | Max. 2.2 uF,<br>Min. 250 Vac,<br>100 °C           | VDE               |
| (Alternate)                                       | ISKRA SISTEMI, d.d.                                | KNB 1560                                          | Max. 2.2 uF,<br>275 V, 110 °C or<br>300 V, 125 °C | VDE               |
| (Alternate)                                       | Liow Gu Electronics Industry Co. Ltd.              | GS-L                                              | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C           | ENEC              |
| (Alternate)                                       | Pilkor Electronics Ltd.                            | PCX2 335M                                         | Max. 2.2 uF,<br>Min. 250 Vac,<br>105 °C           | ENEC              |
| (Alternate)                                       | Pilkor Electronics Ltd.                            | PCX2 337                                          | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C           | ENEC              |



| 부품명(회로기호)<br>Component(Part no.)                      | 제조사(상표명)<br>Manufacturer(Brand)         | 모델명(형식)<br>Model(Type) | 정격 또는 특성<br>Rating or Characteristics                                                | 인증마크<br>Tested by |
|-------------------------------------------------------|-----------------------------------------|------------------------|--------------------------------------------------------------------------------------|-------------------|
| (Alternate)                                           | VISHAY<br>Capacitors<br>Belgium NV      | 339                    | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C                                              | ENEC              |
| (Alternate)                                           | Cheng Tung<br>Industrial Co., Ltd.      | CTX                    | Max. 2.2 uF,<br>Min. 250 Vac,<br>100 °C                                              | VDE               |
| (Alternate)                                           | Shiny Space<br>Enterprise<br>Co., Ltd.  | SX1                    | Max. 2.2 uF,<br>Min. 250 Vac,<br>100 °C                                              | VDE               |
| (Alternate)                                           | Xiamen<br>Faratronic                    | MKP62                  | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C                                              | VDE               |
| (Alternate)                                           | Hua Jung                                | MKP                    | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C                                              | VDE               |
| (Alternate)                                           | Carli                                   | MPX                    | Max. 2.2 uF,<br>Min. 250 Vac,<br>100 or 110 °C                                       | VDE               |
| (Alternate)                                           | EPCOS Electronic<br>Components S.A.     | B3292#CD series        | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C                                              | ENEC              |
| (Alternate)                                           | Joey                                    | MPX                    | Max. 1.0 uF,<br>Min. 250 Vac,<br>105 °C                                              | VDE               |
| (Alternate)                                           | Ultra Tech Xiphi<br>Enterprise Co. Ltd. | HQX                    | Max. 1.0 uF,<br>Min. 250 Vac,<br>100 °C                                              | VDE               |
| Y-Capacitors<br>(C30, C31, C32,<br>C34)<br>(Y1 or Y2) | Murata Mfg.<br>Co., Ltd.                | KH, KX, KY             | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C | VDE               |
| (Alternate)                                           | TDK-EPC<br>Corporation                  | CD, CS                 | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C | VDE               |
| (Alternate)                                           | Walsin<br>Technology Corp               | AH, AC                 | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C | VDE               |

| 부품명(회로기호)<br>Component(Part no.)       | 제조사(상표명)<br>Manufacturer(Brand)                              | 모델명(형식)<br>Model(Type)          | 정격 또는 특성<br>Rating or Characteristics                                                 | 인증마크<br>Tested by |
|----------------------------------------|--------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------|-------------------|
| (Alternate)                            | Welson Industrial Co., Ltd.                                  | WD, KL                          | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C  | VDE               |
| (Alternate)                            | VISHAT                                                       | 338 6                           | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C  | VDE               |
| Bridge Capacitor<br>(C33)<br>(Y1 type) | Murata Mfg. Co., Ltd.                                        | KX                              | Max. 2200 pF,<br>Min. 250 Vac,<br>125 °C                                              | VDE               |
| (Alternate)                            | TDK-EPC Corporation                                          | CD                              | Max. 2200 pF,<br>Min. 250 Vac,<br>125 °C                                              | VDE               |
| (Alternate)                            | Walsin Technology Corp                                       | AH                              | Max. 2200 pF,<br>Min. 250 Vac,<br>125 °C                                              | VDE               |
| (Alternate)                            | Welson Industrial Co., Ltd.                                  | WD                              | Max. 2200 pF,<br>Min. 250 Vac,<br>125 °C                                              | VDE               |
| Photo Coupler<br>(U3)                  | Lite-On Technology Corporation                               | LTV-817,<br>LTV-817M,<br>LTV817 | Dti=0.4 mm,<br>Int. dcr=5.2 mm,<br>Ext. dcr=7.0mm,<br>thermal cycling<br>test, 115 °C | VDE, FIMKO        |
| (Alternate)                            | Sharp Corporation Electronic Components and Devices Division | PC123                           | Dti=0.4 mm,<br>Ext. dcr=8.0 mm,<br>thermal cycle<br>test, 110 °C                      | VDE, Semko        |
| (Alternate)                            | COSMO Electronics Corporation                                | K1010                           | Dti=0.7 mm,<br>Ext. dcr=8.0 mm,<br>thermal cycle<br>test, 100 °C                      | VDE, Semko        |
| (Alternate)                            | Toshiba Corp, Semiconductor Co Discrete Semiconductor Div    | TLP785F                         | Di=0.6 mm,<br>Int. dcr=5.0 mm,<br>Ext. dcr=8 mm,<br>thermal cycling<br>test, 115 °C   | VDE               |
| (Alternate)                            | Toshiba Corp, Semiconductor Co Discrete Semiconductor Div    | TLP785                          | Di=0.6 mm,<br>Int. dcr=5.0 mm,<br>Ext. dcr=6.5 mm,<br>thermal cycling<br>test, 115 °C | VDE               |

| 부품명(회로기호)<br>Component(Part no.)               | 제조사(상표명)<br>Manufacturer(Brand)                                       | 모델명(형식)<br>Model(Type) | 정격 또는 특성<br>Rating or Characteristics                                                 | 인증마크<br>Tested by        |
|------------------------------------------------|-----------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------|--------------------------|
| (Alternate)                                    | Toshiba Corp,<br>Semiconductor<br>Co Discrete<br>Semiconductor<br>Div | TLP781F                | Di=0.6 mm,<br>Int. dcr=5.0 mm,<br>Ext. dcr=8 mm,<br>thermal cycling<br>test, 115 °C   | VDE                      |
| (Alternate)                                    | Toshiba Corp,<br>Semiconductor<br>Co Discrete<br>Semiconductor<br>Div | TLP781                 | Di=0.6 mm,<br>Int. dcr=5.0 mm,<br>Ext. dcr=6.5 mm,<br>thermal cycling<br>test, 115 °C | VDE                      |
| Transformer<br>(T1)<br>(for model<br>GST60A07) | Long Sail<br>Electronic<br>Co., Ltd.                                  | TF-1739A               | Class B                                                                               | Tested with<br>appliance |
| (Alternate)                                    | Jet Signal<br>Industries<br>Co., Ltd.                                 | TF-1739A               | Class B                                                                               | Tested with<br>appliance |
| (Alternate)                                    | Mean Well                                                             | TF-1739A               | Class B                                                                               | Tested with<br>appliance |
| Transformer<br>(T1)<br>(for model<br>GST60A05) | Long Sail<br>Electronic<br>Co., Ltd.                                  | TF-1738A               | Class B                                                                               | Tested with<br>appliance |
| (Alternate)                                    | Jet Signal<br>Industries<br>Co., Ltd.                                 | TF-1738A               | Class B                                                                               | Tested with<br>appliance |
| (Alternate)                                    | Mean Well                                                             | TF-1738A               | Class B                                                                               | Tested with<br>appliance |
| Discharging IC<br>(U1)                         | NXP<br>Semiconductor<br>Taiwan Ltd.                                   | TEA18362T              | 100-240 Vac,<br>47-63 Hz.<br>X-Caps.:<br>0.22- 2.2 µF.<br>Resistors:<br>120- 200 kΩ   | DEMKO                    |
| PCB                                            | Interchangeable                                                       | Interchangeable        | V-1 or better,<br>min. 130 °C                                                         | UL                       |
| Bleeder Resistors<br>(R12, R15)                | Interchangeable                                                       | Interchangeable        | Total 120-200kΩ ,<br>max. 1/4 W                                                       | Tested with<br>appliance |



| 부품명(회로기호)<br>Component(Part no.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 제조사(상표명)<br>Manufacturer(Brand) | 모델명(형식)<br>Model(Type) | 정격 또는 특성<br>Rating or Characteristics | 인증마크<br>Tested by |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------|---------------------------------------|-------------------|
| <p><input type="checkbox"/> 유의사항 (Attention) :</p> <p>1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장검사 시 확인 관리 하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등재를 원하시는 경우는 안전인증기관에 인증변경신청을 하여야 합니다.</p> <p><i>As the "Critical components" are parts in directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying multiple listing or changing the items above, the certification revision shall be applied.</i></p> <p>2. 인증변경신청 없이 임의로 변경하는 경우는, 전기용품 및 생활용품 안전관리법 시행규칙 제 20 조제 1 항 또는 제 36 조제 1 항 규정에 의한 안전인증 취소 혹은 안전확인신고 효력상실 사유가 됨을 유의하시기 바랍니다.</p> <p><i>The Safety Certification will be cancelled under the Article 20(1), 36(1) of the Enforcement Rule of the Electrical appliances and Consumer Products Safety Control Act if the contents of the Certification is altered without our authorization.</i></p> |                                 |                        |                                       |                   |

FP511-04

☐ 첨부 2 : 기본모델 · 파생모델의 내용  
Description of the basic and series model

| 파생모델명<br>Derivative model                                                                                                                                                                                                                                                                                                                   | 기본모델과의 차이점<br>Differences between the basic and derivative model(s)                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| GST60A05                                                                                                                                                                                                                                                                                                                                    | Same as basic model except for transformer type, output rating and model designation.<br>Output rating: 5 Vdc, 6.0 A, 30 W MAX. |
| 제품특기사항 및 시험조건<br>Remarks & Test conditions                                                                                                                                                                                                                                                                                                  |                                                                                                                                 |
| <p>1. Test Report Ref. No. : 16-031672-01 (2016.10.10)</p> <p>2. Product Description</p> <ul style="list-style-type: none"> <li>- Measured power consumption: 49 W</li> <li>- Class of equipment: Class I</li> <li>- Protection against ingress of water: IPX0</li> <li>- Mass of equipment (kg): 0.3 kg</li> </ul>                         |                                                                                                                                 |
| <p><input type="checkbox"/> 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다.<br/>시험담당자 : 인증산업본부 정보조명평가센터 박 일우 / 02-860-1436<br/><i>If you have any question on product testing, please contact the person below :</i><br/>Job holder : Certification Business Division, IT &amp; Lighting Testing Center, Park Il-Woo / +82 2 860-1436</p> |                                                                                                                                 |

FP511-05

☐ 첨부 3 : 안전인증의 변경 현황  
Revisions Status

| 변경발급 내용<br>Contents of Certificate Revisions                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1<sup>st</sup> Rev.) Change of X-Capacitor (C1) (18-001463-01-2: 2018.01.15)</p> <ul style="list-style-type: none"> <li>- X-Capacitor (C1) Optional</li> <li>- Change of Capacitance for X-Capacitor (C1)<br/>(except for model MXP (Joey), HQX (Ultra Tech Xiphi Enterprise Co., Ltd.)):<br/>From 0.47 uF to Max. 2.2 uF</li> <li>- Change of Capacitance for X-Capacitor (C1)<br/>(for model MXP (Joey), HQX (Ultra Tech Xiphi Enterprise Co., Ltd.) only):<br/>From 0.47 uF to Max. 1.0 uF</li> </ul> |

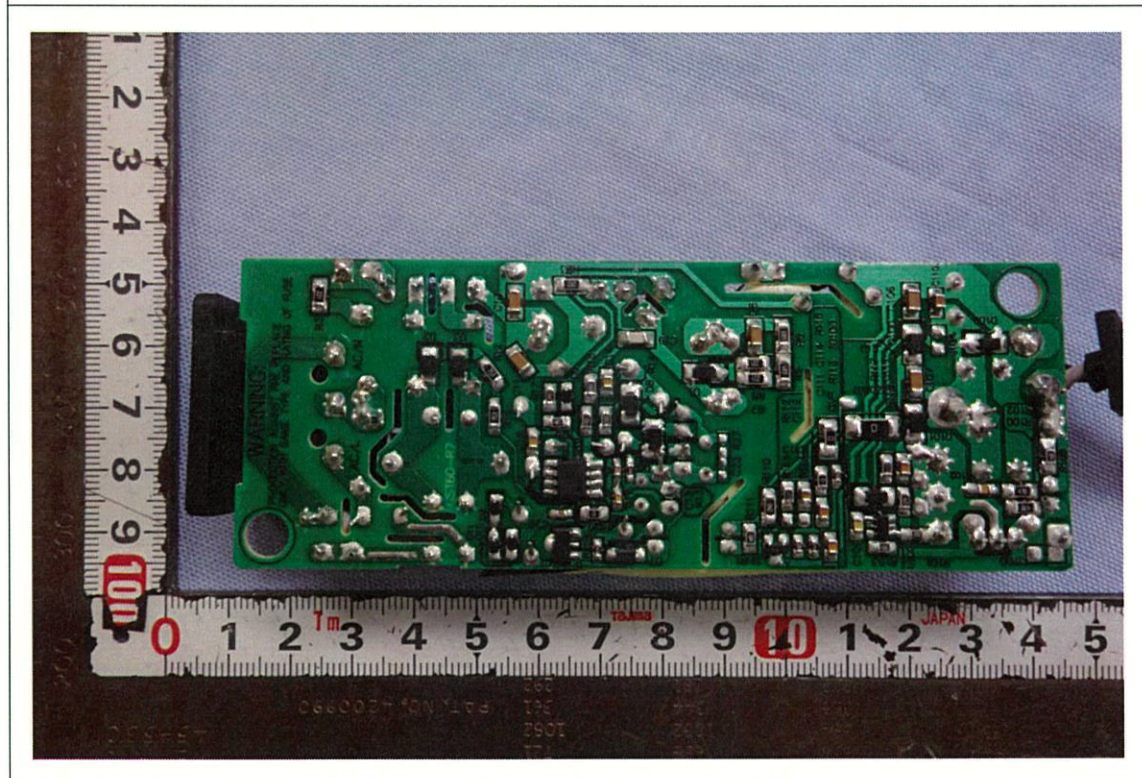
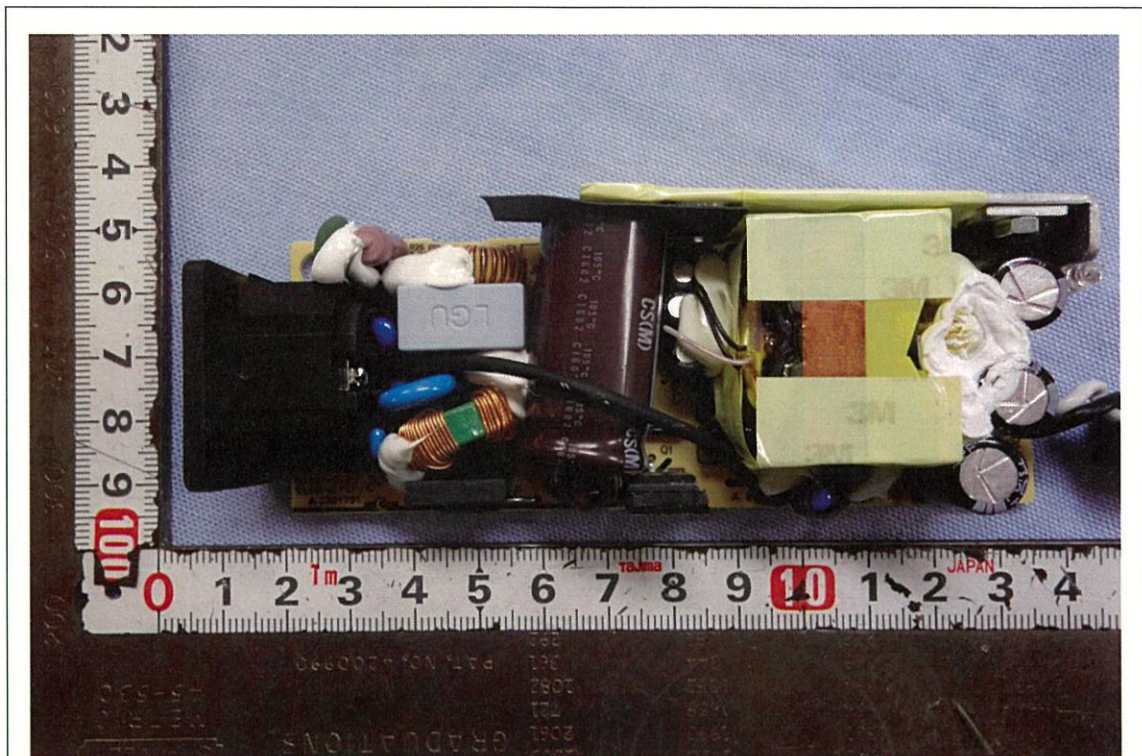
FP511-06



☐ 첨부 : 제품사진  
Photographs









접 수 번 호 : 16-031672-01  
(Receipt No.)



# 전 기 용 품 안 전 인 증 서

## Electrical Appliances Safety Certificate

안 전 인 증 번 호 : SU10509-16019  
(Certificate No.)

제 조 업 자 명 : SuZhou MEAN WELL Technology Co., Ltd.  
(Manufacturer)

대 표 자 명 : Mr. Jerry Lin  
(President)

제조공장의 주소 : No. 77, Jian-Min Road, Dong-Qiao, Pan-Yang Ind. Park,  
(Factory Address) Huang-Dai Town, Xiang-Cheng District, Suzhou, Jiangsu 215152,  
P.R. China

제 품 명 : 직류전원장치(AC/DC Switching Adaptor)  
(Product)

기 본 모 델 명 : GST60A07  
(Basic Model)

정 격 : 100-240 Vac, 50/60 Hz, 1.4 A, Class I  
(Rating) (Output: 7.5 Vdc, 6.0 A, 45 W MAX.)

파 생 모 델 명 : GST60A05  
(Series Model)

적 용 기 준 : K 60950-1 (2011-12)  
(Standard)

「전기용품안전 관리법 시행규칙」 제6조제2항에 따라 위의 전기용품에 대하여 안전인증서를 발급합니다.

We Issue Electrical Appliances Safety Certification as above product by Article 6 Section 2 of the Electrical Appliances Safety Control Law Enforcement Regulation.

2016 년 10 월 11 일  
Year month day



한국산업기술시험원장

KOREA TESTING LABORATORY



※ 이 인증서는 「전기용품안전 관리법」에 따른 전기용품 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

첨 부 :  
(Annex)

1. 안전관리부품 및 재질목록 (List of Critical Components)
2. 기본모델·파생모델의 내용 (Descriptions of the basic and series model)
3. 전기용품안전인증의 변경 현황 (Revisions Status)



□ 첨부 1 : 안전관리부품 및 재질목록  
List of Critical Components

| 부품명(회로기호)<br>Component(Part no.)    | 제조사(상표명)<br>Manufacturer(Brand)                    | 모델명(형식)<br>Model(Type)                            | 정격 또는 특성<br>Rating or Characteristics         | 인증마크<br>Tested by |
|-------------------------------------|----------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-------------------|
| Plastic Enclosure                   | Sabic Innovative Plastics                          | 945, 940                                          | V=0, 120 °C, min.<br>1.8 mm thick             | UL                |
| AC Inlet                            | Pronic Electronics (Shenzhen) Co., Ltd.            | PST-101                                           | 10 A, 250 Vac                                 | VDE               |
| (Alternate)                         | Rong Feng Industrial Co., Ltd.                     | SS-120                                            | 10 A, 250 Vac                                 | VDE               |
| (Alternate)                         | TECX-UNIONS Technology Corporation                 | TU-301-A,<br>TU-301-AP,<br>TU-301-S,<br>TU-301-SP | 10 A, 250 Vac                                 | VDE               |
| (Alternate)                         | Rong Feng Industrial Co., Ltd.                     | SS-3B                                             | 16 A, 250 Vac                                 | VDE               |
| Fuse (FS1)                          | Littelfuse Inc.                                    | 392                                               | T 2 A, 250 V                                  | VDE               |
| (Alternate)                         | Ever Island Electric Co., Ltd. and Walter Electric | 2010 Serie(s)                                     | T 2 A, 250 V                                  | VDE               |
| (Alternate)                         | Conquer                                            | MST                                               | T 2 A, 250 V                                  | VDE               |
| X-Capacitor (C1)<br>(X1 or X2 type) | Kemet Electronics Italia Srl (Arcotronics SPA)     | R.46                                              | 0.47 µF,<br>Min. 250 Vac,<br>110/125 °C       | ENEC              |
| (Alternate)                         | Kemet Electronics Italia Srl (Arcotronics SPA)     | R.49                                              | 0.47 µF,<br>Min. 250 Vac,<br>110 °C           | ENEC              |
| (Alternate)                         | EPCOS Electronic Components S.A.                   | B3292#                                            | 0.47 µF,<br>Min. 250 Vac,<br>105 °C           | VDE               |
| (Alternate)                         | ISKRA SISTEMI, d.d.                                | KNB 1530                                          | 0.47 µF,<br>Min. 250 Vac,<br>100 °C           | VDE               |
| (Alternate)                         | ISKRA SISTEMI, d.d.                                | KNB 1560                                          | 0.47 µF,<br>275 V, 110 °C or<br>300 V, 125 °C | VDE               |
| (Alternate)                         | Liow Gu Electronics Industry Co. Ltd.              | GS-L                                              | 0.47 µF,<br>Min. 250 Vac,<br>110 °C           | ENEC              |
| (Alternate)                         | Pilkor Electronics Ltd.                            | PCX2 335M                                         | 0.47 µF,<br>Min. 250 Vac,<br>105 °C           | ENEC              |
| (Alternate)                         | Pilkor Electronics Ltd.                            | PCX2 337                                          | 0.47 µF,<br>Min. 250 Vac,<br>110 °C           | ENEC              |



| 부품명(회로기호)<br>Component(Part no.)                      | 제조사(상표명)<br>Manufacturer(Brand)         | 모델명(형식)<br>Model(Type) | 정격 또는 특성<br>Rating or Characteristics                                                | 인증마크<br>Tested by |
|-------------------------------------------------------|-----------------------------------------|------------------------|--------------------------------------------------------------------------------------|-------------------|
| (Alternate)                                           | VISHAY<br>Capacitors<br>Belgium NV      | 339                    | 0.47 $\mu$ F,<br>Min. 250 Vac,<br>110 °C                                             | ENEC              |
| (Alternate)                                           | Cheng Tung<br>Industrial Co., Ltd.      | CTX                    | 0.47 $\mu$ F,<br>Min. 250 Vac,<br>100 °C                                             | VDE               |
| (Alternate)                                           | Shiny Space<br>Enterprise<br>Co., Ltd.  | SX1                    | 0.47 $\mu$ F,<br>Min. 250 Vac,<br>100 °C                                             | VDE               |
| (Alternate)                                           | Xiamen<br>Faratronic                    | MKP62                  | 0.47 $\mu$ F,<br>Min. 250 Vac,<br>110 °C                                             | VDE               |
| (Alternate)                                           | Hua Jung                                | MKP                    | 0.47 $\mu$ F,<br>Min. 250 Vac,<br>110 °C                                             | VDE               |
| (Alternate)                                           | Carli                                   | MPX                    | 0.47 $\mu$ F,<br>Min. 250 Vac,<br>100 or 110 °C                                      | VDE               |
| (Alternate)                                           | EPCOS Electronic<br>Components S.A.     | B3292#CD series        | 0.47 $\mu$ F,<br>Min. 250 Vac,<br>110 °C                                             | ENEC              |
| (Alternate)                                           | Joey                                    | MPX                    | 0.47 $\mu$ F,<br>Min. 250 Vac,<br>105 °C                                             | VDE               |
| (Alternate)                                           | Ultra Tech Xiphi<br>Enterprise Co. Ltd. | HQX                    | 0.47 $\mu$ F,<br>Min. 250 Vac,<br>100 °C                                             | VDE               |
| Y-Capacitors<br>(C30, C31, C32,<br>C34)<br>(Y1 or Y2) | Murata Mfg.<br>Co., Ltd.                | KH, KX, KY             | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C | VDE               |
| (Alternate)                                           | TDK-EPC<br>Corporation                  | CD, CS                 | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C | VDE               |
| (Alternate)                                           | Walsin<br>Technology Corp               | AH, AC                 | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C | VDE               |

| 부품명(회로기호)<br>Component(Part no.)       | 제조사(상표명)<br>Manufacturer(Brand)                              | 모델명(형식)<br>Model(Type)          | 정격 또는 특성<br>Rating or Characteristics                                                 | 인증마크<br>Tested by |
|----------------------------------------|--------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------|-------------------|
| (Alternate)                            | Welson Industrial Co., Ltd.                                  | WD, KL                          | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C  | VDE               |
| (Alternate)                            | VISHAT                                                       | 338 6                           | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C  | VDE               |
| Bridge Capacitor<br>(C33)<br>(Y1 type) | Murata Mfg. Co., Ltd.                                        | KX                              | Max. 2200 pF,<br>Min. 250 Vac,<br>125 °C                                              | VDE               |
| (Alternate)                            | TDK-EPC Corporation                                          | CD                              | Max. 2200 pF,<br>Min. 250 Vac,<br>125 °C                                              | VDE               |
| (Alternate)                            | Walsin Technology Corp                                       | AH                              | Max. 2200 pF,<br>Min. 250 Vac,<br>125 °C                                              | VDE               |
| (Alternate)                            | Welson Industrial Co., Ltd.                                  | WD                              | Max. 2200 pF,<br>Min. 250 Vac,<br>125 °C                                              | VDE               |
| Photo Coupler<br>(U3)                  | Lite-On Technology Corporation                               | LTV-817,<br>LTV-817M,<br>LTV817 | Dti=0.4 mm,<br>Int. dcr=5.2 mm,<br>Ext. dcr=7.0mm,<br>thermal cycling<br>test, 115 °C | VDE, FIMKO        |
| (Alternate)                            | Sharp Corporation Electronic Components and Devices Division | PC123                           | Dti=0.4 mm,<br>Ext. dcr=8.0 mm,<br>thermal cycle<br>test, 110 °C                      | VDE, Semko        |
| (Alternate)                            | COSMO Electronics Corporation                                | K1010                           | Dti=0.7 mm,<br>Ext. dcr=8.0 mm,<br>thermal cycle<br>test, 100 °C                      | VDE, Semko        |
| (Alternate)                            | Toshiba Corp, Semiconductor Co Discrete Semiconductor Div    | TLP785F                         | Di=0.6 mm,<br>Int. dcr=5.0 mm,<br>Ext. dcr=8 mm,<br>thermal cycling<br>test, 115 °C   | VDE               |
| (Alternate)                            | Toshiba Corp, Semiconductor Co Discrete Semiconductor Div    | TLP785                          | Di=0.6 mm,<br>Int. dcr=5.0 mm,<br>Ext. dcr=6.5 mm,<br>thermal cycling<br>test, 115 °C | VDE               |

| 부품명(회로기호)<br>Component(Part no.)               | 제조사(상표명)<br>Manufacturer(Brand)                                       | 모델명(형식)<br>Model(Type) | 정격 또는 특성<br>Rating or Characteristics                                                            | 인증마크<br>Tested by        |
|------------------------------------------------|-----------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------|--------------------------|
| (Alternate)                                    | Toshiba Corp,<br>Semiconductor<br>Co Discrete<br>Semiconductor<br>Div | TLP781F                | Di=0.6 mm,<br>Int. dcr=5.0 mm,<br>Ext. dcr=8 mm,<br>thermal cycling<br>test, 115 °C              | VDE                      |
| (Alternate)                                    | Toshiba Corp,<br>Semiconductor<br>Co Discrete<br>Semiconductor<br>Div | TLP781                 | Di=0.6 mm,<br>Int. dcr=5.0 mm,<br>Ext. dcr=6.5 mm,<br>thermal cycling<br>test, 115 °C            | VDE                      |
| Transformer<br>(T1)<br>(for model<br>GST60A07) | Long Sail<br>Electronic<br>Co., Ltd.                                  | TF-1739A               | Class B                                                                                          | Tested with<br>appliance |
| (Alternate)                                    | Jet Signal<br>Industries<br>Co., Ltd.                                 | TF-1739A               | Class B                                                                                          | Tested with<br>appliance |
| (Alternate)                                    | Mean Well                                                             | TF-1739A               | Class B                                                                                          | Tested with<br>appliance |
| Transformer<br>(T1)<br>(for model<br>GST60A05) | Long Sail<br>Electronic<br>Co., Ltd.                                  | TF-1738A               | Class B                                                                                          | Tested with<br>appliance |
| (Alternate)                                    | Jet Signal<br>Industries<br>Co., Ltd.                                 | TF-1738A               | Class B                                                                                          | Tested with<br>appliance |
| (Alternate)                                    | Mean Well                                                             | TF-1738A               | Class B                                                                                          | Tested with<br>appliance |
| Discharging IC<br>(U1)                         | NXP<br>Semiconductor<br>Taiwan Ltd.                                   | TEA18362T              | 100-240 Vac,<br>47-63 Hz.<br>X-Caps.:<br>0.22- 2.2 $\mu$ F.<br>Resistors:<br>120- 200 k $\Omega$ | DEMKO                    |
| PCB                                            | Interchangeable                                                       | Interchangeable        | V-1 or better,<br>min. 130 °C                                                                    | UL                       |
| Bleeder Resistors<br>(R12, R15)                | Interchangeable                                                       | Interchangeable        | Total 120-200k $\Omega$ ,<br>max. 1/4 W                                                          | Tested with<br>appliance |



| 부품명(회로기호)<br>Component(Part no.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 제조사(상표명)<br>Manufacturer(Brand) | 모델명(형식)<br>Model(Type) | 정격 또는 특성<br>Rating or Characteristics | 인증마크<br>Tested by |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------|---------------------------------------|-------------------|
| <div> <input type="checkbox"/> 유의사항 (Attention) : </div> <ol style="list-style-type: none"> <li> <p>안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장검사 시 확인 관리 하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등재를 원하시는 경우는 안전인증기관에 인증변경신청을 하여야 합니다.</p> <p><i>As the "Critical components" are parts in directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying multiful listing or changing the items above, the certification revision shall be applied.</i></p> </li> <li> <p>인증변경신청 없이 임의로 변경하는 경우는, 전기용품안전관리법 제 8 조제 1 항의 규정에 의한 안전인증취소 사유가 됨을 유의하시기 바랍니다.</p> <p><i>The Safety Certification will be cancelled under the Safety Control Law for Electrical Appliances, Paragraph 1 of Article 8 if the contents of the Certification is altered without our authorization.</i></p> </li> </ol> |                                 |                        |                                       |                   |

FP511-10-00

☐ 첨부 2 : 기본모델 · 파생모델의 내용  
General description of Certified Products

| 파생모델명<br>Derivative model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 기본모델과의 차이점<br>Differences between the basic and derivative model(s)                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| GST60A05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Same as basic model except for transformer type, output rating and model designation.<br>Output rating: 5 Vdc, 6.0 A, 30 W MAX. |
| 제품특기사항 및 시험조건<br>Remarks & Test conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                 |
| <p>1. Test Report Ref. No. : 16-031672-01 (2016.10.10)</p> <p>2. Product Description</p> <ul style="list-style-type: none"> <li>- Measured power consumption: 49 W</li> <li>- Class of equipment: Class I</li> <li>- Protection against ingress of water: IPX0</li> <li>- Mass of equipment (kg): 0.3 kg</li> </ul> <p><input type="checkbox"/> 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다.<br/>시험담당자 : 디지털산업본부 정보조명평가센터 박 일 우 / 02-860-1436</p> <p><input type="checkbox"/> If you have any question on product testing, please contact the person below :<br/>Job holder : S.M.A.R.T. Industry Division, IT &amp; Lighting Testing Center, Park Il-Woo / +82 2 860-1436</p> |                                                                                                                                 |
| FP511-09-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                 |

☐ 첨부 3 : 전기용품안전인증의 변경 현황  
Status of Certificate Revisions

| 변경발급 내용<br>Contents of Certificate Revisions |
|----------------------------------------------|
| Not applicable                               |

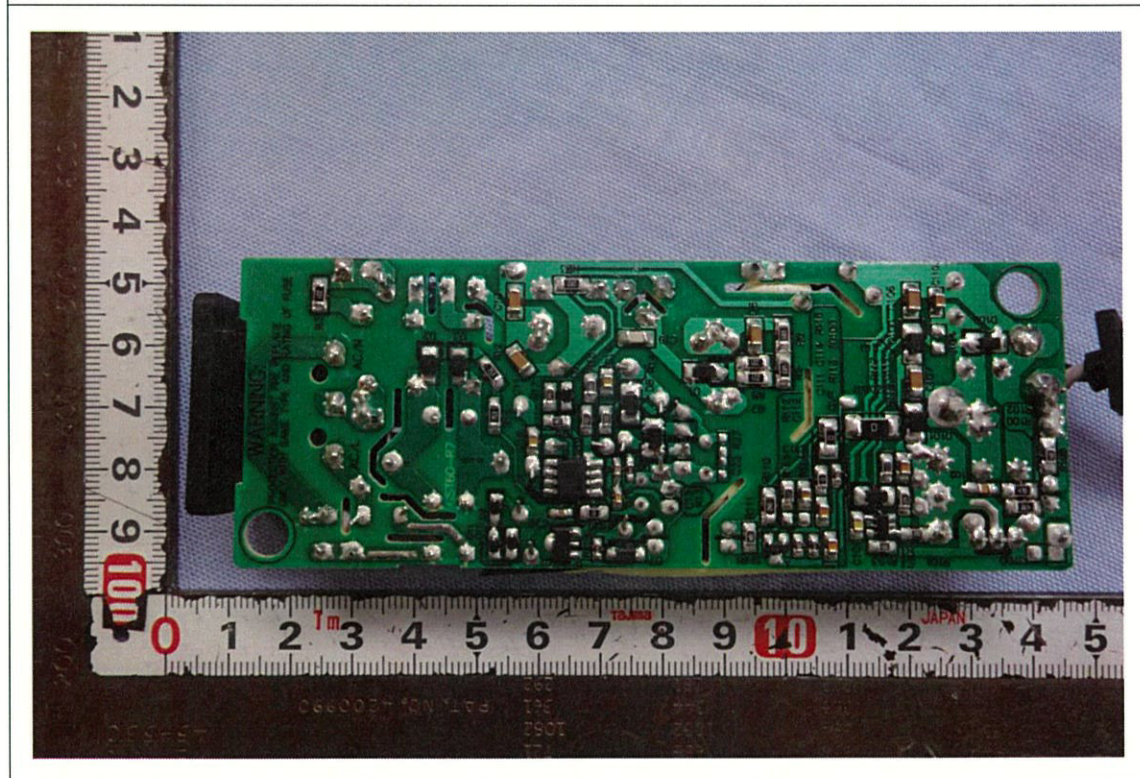
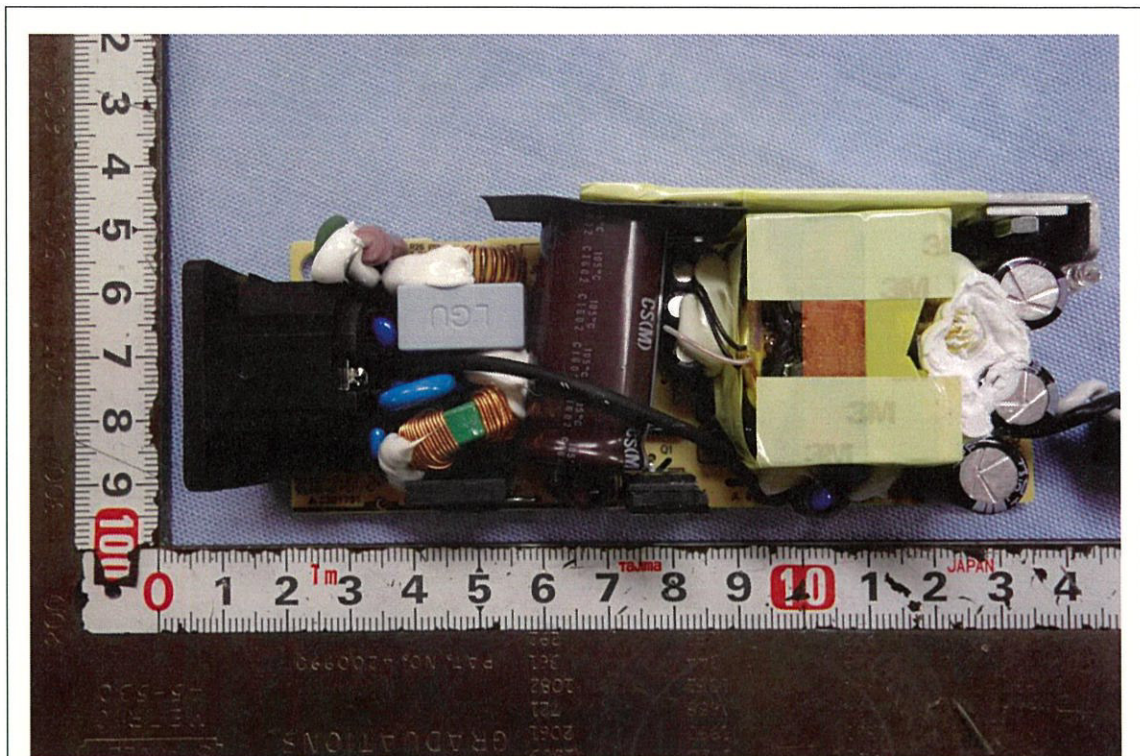
FP511-11-00



☐ 첨부 : 제품사진  
Photographs









접 수 번 호 : 23-011998-03-1  
(Receipt No.)



# 안 전 인 증 서

## Safety Certificate

안 전 인 증 번 호 : SU10509-16020C  
(Certificate No.)

제 조 업 자/수 입 업 자 명 : SuZhou MEAN WELL Technology Co., Ltd.  
(Manufacturer/importer)

주 소 : No.269, ChangPing Road, Huangdai Town, Xiangcheng District,  
(Address) Suzhou, China

제 품 명 : 직류전원장치(AC/DC Switching Adaptor)  
(Product)

기 본 모 델 명 : GST60A48  
(Basic Model)

파 생 모 델 명 : See the attachment 2  
(Series Model)

정격/안전기준상의 모델구분 : 100-240 Vac, 50/60 Hz, 1.4 A,  
(Rating) (Output: 48 Vdc, 1.25 A, 60 W MAX.)

시 험 기 준 : KC62368-1(2021-08)  
(Standard)

본 인증서는 제 조 국 명 : 중국  
제 조 업 자 명 : SuZhou MEAN WELL Technology Co., Ltd.  
제조공장의 주소 : No.269, ChangPing Road, Huangdai Town, Xiangcheng District, Suzhou, China  
의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항, 제4항, 제10조제2항 또는 제15조제2항에 따라 안전인증서를 발급합니다.

We Issue This Safety Certificate for the above appliances in accordance with the Article 9(2), 9(4), 10(2) or 15(2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2023 년 03 월 24 일  
Year month day

한국산업기술시험원  
KOREA TESTING LABORATORY



※ 이 인증서는 「전기용품 및 생활용품 안전관리법 시행규칙」에 따른 제품의 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

첨부서류

1. 전기용품의 안전관리부품 및 재질목록(List of Critical Components)
2. 기본모델·파생모델의 내용 (Descriptions of the basic and series model)
3. 안전인증의 변경 현황 (Revisions Status)

□ 첨부 1 : 전기용품의 안전관리부품 및 재질목록  
List of Critical Components

| 부품명(회로기호)<br>Component(Part no.)         | 제조사(상표명)<br>Manufacturer(Brand)                    | 모델명(형식)<br>Model(Type)                         | 정격 또는 특성<br>Rating or Characteristics | 인증마크<br>Tested by |
|------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------|-------------------|
| Plastic Enclosure                        | Sabic Innovative Plastics                          | 940, 945                                       | V-0, 120 °C, min. 1.8 mm thick        | UL                |
| AC Inlet                                 | Rong Feng Industrial Co., Ltd.                     | SS-120                                         | 10 A, 250 Vac                         | VDE               |
| (Alternate)                              | TECX-UNIONS Technology Corporation                 | TU-301-A<br>TU-301-AP<br>TU-301-S<br>TU-301-SP | 10 A, 250 Vac                         | VDE               |
| (Alternate)                              | Rong Feng Industrial Co., Ltd.                     | SS-3B                                          | 16 A, 250 Vac                         | VDE               |
| Fuse (FS1)                               | Littelfuse, Inc.                                   | 392                                            | T2 A, 250 Vac                         | VDE               |
| (Alternate)                              | Ever Island Electric Co., Ltd. and Walter Electric | 2010 Serie(s)                                  | T2 A, 250 Vac                         | VDE               |
| (Alternate)                              | Conquer                                            | MST                                            | T2 A, 250 Vac                         | VDE               |
| Choke (LF1) (Optional)                   | Mean Well                                          | TR-790                                         | Min. 130 °C                           | --                |
| X-Capacitor (C1) (0.1-1.5 uF) (Optional) | Kemet Electronics Italia Srl (Arcotronics SPA)     | R.46                                           | Min. 250 Vac, 110 °C                  | ENEC              |
| (Alternate)                              | Kemet Electronics Italia Srl (Arcotronics SPA)     | R.49                                           | Min. 250 Vac, 110 °C                  | ENEC              |
| (Alternate)                              | EPCOS Electronic Components S.A.                   | B3292#                                         | Min. 250 Vac, 105 °C                  | VDE               |
| (Alternate)                              | ISKRA SISTEMI, d.d.                                | KNB 1530                                       | Min. 250 Vac, 100 °C                  | VDE               |
| (Alternate)                              | ISKRA SISTEMI, d.d.                                | KNB 1560                                       | Min. 250 Vac, 125 °C                  | VDE               |
| (Alternate)                              | Liow Gu Electronics Industry Co. Ltd.              | GS-L                                           | Min. 250 Vac, 110 °C                  | ENEC              |
| (Alternate)                              | Pilkor Electronics Ltd.                            | PCX2 335M                                      | Min. 250 Vac, 105 °C                  | ENEC              |
| (Alternate)                              | Pilkor Electronics Ltd.                            | PCX2 337                                       | Min. 250 Vac, 110 °C                  | ENEC              |



| 부품명(회로기호)<br>Component(Part no.)                                                                                                                     | 제조사(상표명)<br>Manufacturer(Brand)            | 모델명(형식)<br>Model(Type) | 정격 또는 특성<br>Rating or Characteristics | 인증마크<br>Tested by |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------------------|---------------------------------------|-------------------|
| (Alternate)                                                                                                                                          | VISHAY<br>Capacitors<br>Belgium NV         | 339                    | Min. 250 Vac,<br>110 °C               | ENEC              |
| (Alternate)                                                                                                                                          | Cheng Tung<br>Industrial<br>Co., Ltd.      | CTX                    | Min. 250 Vac,<br>110 °C               | VDE               |
| (Alternate)                                                                                                                                          | Shiny Space<br>Enterprise Co.,<br>Ltd.     | SX1                    | Min. 250 Vac,<br>100 °C               | ENEC              |
| (Alternate)                                                                                                                                          | Xiamen<br>Faratronic                       | MKP62                  | Min. 250 Vac,<br>110 °C               | VDE               |
| (Alternate)                                                                                                                                          | Hua Jung                                   | MKP                    | Min. 250 Vac,<br>110 °C               | ENEC              |
| (Alternate)                                                                                                                                          | Carli                                      | MPX                    | Min. 250 Vac,<br>110 °C               | VDE               |
| (Alternate)                                                                                                                                          | EPCOS<br>Electronic<br>Components<br>S.A.  | B3292#CD<br>series     | Min. 250 Vac,<br>110 °C               | ENEC              |
| (Alternate)                                                                                                                                          | Joey                                       | MPX                    | Min. 250 Vac,<br>105 °C               | VDE               |
| (Alternate)                                                                                                                                          | Ultra Tech Xiphi<br>Enterprise Co.<br>Ltd. | HQX                    | Min. 250 Vac,<br>100 °C               | VDE               |
| Choke (LF2)<br>(Optional)                                                                                                                            | Mean Well                                  | TR-733                 | Min. 130 °C                           |                   |
| Y-Capacitors<br>(C30, C31, C32,<br>C34)<br>- C30= C31=<br>C32= max.<br>4700 pF<br>(optional)<br>- C34= max.<br>10000 pF<br>(optional or<br>bypassed) | Murata Mfg. Co.,<br>Ltd.                   | KX                     | Min. 250 Vac,<br>125 °C               | VDE               |
| (Alternate)                                                                                                                                          | TDK-EPC<br>Corporation                     | CD                     | Min. 250 Vac,<br>125 °C               | VDE               |
| (Alternate)                                                                                                                                          | Walsin<br>Technology<br>Corp               | AH<br>AC(Y2 type)      | Min. 250 Vac,<br>125 °C               | VDE               |
| (Alternate)                                                                                                                                          | Welson<br>Industrial Co.,<br>Ltd.          | WD                     | Min. 250 Vac,<br>125 °C               | VDE               |

| 부품명(회로기호)<br>Component(Part no.)                                    | 제조사(상표명)<br>Manufacturer(Brand)                              | 모델명(형식)<br>Model(Type) | 정격 또는 특성<br>Rating or Characteristics | 인증마크<br>Tested by |
|---------------------------------------------------------------------|--------------------------------------------------------------|------------------------|---------------------------------------|-------------------|
| Bridge Capacitor (C33)<br>(Optional)<br>(Max. 2200 pF)<br>(Y1 type) | Murata Mfg. Co., Ltd.                                        | KX                     | Min. 250 Vac,<br>125 °C               | VDE               |
| (Alternate)                                                         | TDK                                                          | CD                     | Min. 250 Vac,<br>125 °C               | VDE               |
| (Alternate)                                                         | Walsin Technology Corp                                       | AH                     | Min. 250 Vac,<br>125 °C               | VDE               |
| (Alternate)                                                         | Welson Industrial Co., Ltd.                                  | WD                     | Min. 250 Vac,<br>125 °C               | VDE               |
| Photo Coupler (U3)                                                  | Lite-On Technology Corporation                               | LTV-817,<br>LTV-817M,  | Reinforced insulation                 | VDE, FIMKO        |
| (Alternate)                                                         | Sharp Corporation Electronic Components and Devices Division | PC123                  | Reinforced insulation                 | VDE, Semko        |
| (Alternate)                                                         | COSMO Electronics Corporation                                | K1010                  | Reinforced insulation                 | VDE, Semko        |
| (Alternate)                                                         | Toshiba Corp, Semiconductor Co Discrete Semiconductor Div    | TLP785F                | Reinforced insulation                 | VDE               |
| (Alternate)                                                         | Toshiba Corp, Semiconductor Co Discrete Semiconductor Div    | TLP785                 | Reinforced insulation                 | VDE               |
| (Alternate)                                                         | Toshiba Corp, Semiconductor Co Discrete Semiconductor Div    | TLP781F                | Reinforced insulation                 | VDE               |
| (Alternate)                                                         | Toshiba Corp, Semiconductor Co Discrete Semiconductor Div    | TLP781                 | Reinforced insulation                 | VDE               |



| 부품명(회로기호)<br>Component(Part no.)                                                            | 제조사(상표명)<br>Manufacturer(Brand)         | 모델명(형식)<br>Model(Type)                                                                                                                                              | 정격 또는 특성<br>Rating or Characteristics    | 인증마크<br>Tested by            |
|---------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------|
| Transformer<br>(T1)<br>(for Models<br>GST60Ax)                                              | Long Sail<br>Electronic Co.,<br>Ltd.    | TF-1740A<br>(for x= 09),<br>TF-1741A<br>(for x= 12),<br>TF-1742A<br>(for x= 15),<br>TF-1743A<br>(for x= 18),<br>TF-1744A<br>(for x= 24),<br>TF-1745A<br>(for x= 48) | Class B                                  | Accepted by<br>TÜV Rheinland |
| (Alternate)                                                                                 | Jet Signal<br>Industries Co.,<br>Ltd.   | TF-1740A<br>(for x= 09),<br>TF-1741A<br>(for x= 12),<br>TF-1742A<br>(for x= 15),<br>TF-1743A<br>(for x= 18),<br>TF-1744A<br>(for x= 24),<br>TF-1745A<br>(for x= 48) | Class B                                  | Accepted by<br>TÜV Rheinland |
| (Alternate)                                                                                 | Mean Well                               | TF-1740A<br>(for x= 09),<br>TF-1741A<br>(for x= 12),<br>TF-1742A<br>(for x= 15),<br>TF-1743A<br>(for x= 18),<br>TF-1744A<br>(for x= 24),<br>TF-1745A<br>(for x= 48) | Class B                                  | Accepted by TÜV<br>Rheinland |
| PCB                                                                                         | SHUNDE<br>JUNDA<br>ELECTRONIC<br>CO LTD | JD-D                                                                                                                                                                | V-1 or better,<br>min. 130 °C            | UL                           |
| (Alternate)                                                                                 | Interchangeable                         | Interchangeable                                                                                                                                                     | V-1 or better,<br>min. 130 °C            | UL                           |
| Bleeder<br>Resistors<br>(R12, R15 for<br>layout type A)<br>(R15 for layout<br>type B and C) | Walsin<br>Technology<br>Corporation     | WF Series                                                                                                                                                           | Total 120-200 k $\Omega$ ,<br>min. 1/4 W | UL                           |

| 부품명(회로기호)<br>Component(Part no.)                        | 제조사(상표명)<br>Manufacturer(Brand)     | 모델명(형식)<br>Model(Type) | 정격 또는 특성<br>Rating or Characteristics | 인증마크<br>Tested by |
|---------------------------------------------------------|-------------------------------------|------------------------|---------------------------------------|-------------------|
| (Alternate)                                             | Tzai Yuan<br>Enterprise Co.,Ltd     | SMD 1206*****          | Total 120-200 kΩ ,<br>min. 1/4 W      | UL                |
| (Alternate)                                             | Ever Ohms<br>Technology Co<br>Ltd   | HR Series              | Total 120-200 kΩ ,<br>min. 1/4 W      | UL                |
| Bleeder<br>Resistors<br>(R12, R15 for<br>layout type D) | Walsin<br>Technology<br>Corporation | WF Series              | Total 120-200 kΩ ,<br>min. 1/4 W      | UL                |
| (Alternate)                                             | Tzai Yuan<br>Enterprise Co.,Ltd     | SMD 1206*****          | Total 120-200 kΩ ,<br>min. 1/4 W      | UL                |
| (Alternate)                                             | Ever Ohms<br>Technology Co<br>Ltd   | HR Series              | Total 120-200 kΩ ,<br>min. 1/4 W      | UL                |

☐ 유의사항 (Attention) :

1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장검사 시 확인 관리 하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등재를 원하시는 경우는 안전인증기관에 인증변경신청을 하여야 합니다.

*As the "Critical components" are parts in directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying multiple listing or changing the items above, the certification revision shall be applied.*

2. 인증변경신청 없이 임의로 변경하는 경우는, 전기용품 및 생활용품 안전관리법 시행규칙 제 20 조제 1 항 또는 제 36 조제 1 항 규정에 의한 안전인증 취소 혹은 안전확인신고 효력상실 사유가 됨을 유의하시기 바랍니다.

*The Safety Certification will be cancelled under the Article 20(1), 36(1) of the Enforcement Rule of the Electrical appliances and Consumer Products Safety Control Act if the contents of the Certification is altered without our authorization.*

□ 첨부 2 : 기본모델 · 파생모델의 내용  
Description of the basic and series model

| 파생모델명<br>Derivative model                                                                                                                                                                                                                                                                                           | 기본모델과의 차이점<br>Differences between the basic and derivative model(s)                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| GST60A09                                                                                                                                                                                                                                                                                                            | Same as basic model except for transformer type, output rating and model designation.<br>Output rating: 9 Vdc, 6.0 A, 54 W MAX.   |
| GST60A12                                                                                                                                                                                                                                                                                                            | Same as basic model except for transformer type, output rating and model designation.<br>Output rating: 12 Vdc, 5.0 A, 60 W MAX.  |
| GST60A15                                                                                                                                                                                                                                                                                                            | Same as basic model except for transformer type, output rating and model designation.<br>Output rating: 15 Vdc, 4.0 A, 60 W MAX.  |
| GST60A18                                                                                                                                                                                                                                                                                                            | Same as basic model except for transformer type, output rating and model designation.<br>Output rating: 18 Vdc, 3.33 A, 60 W MAX. |
| GST60A24                                                                                                                                                                                                                                                                                                            | Same as basic model except for transformer type, output rating and model designation.<br>Output rating: 24 Vdc, 2.5 A, 60 W MAX.  |
| 제품특기사항 및 시험조건<br>Remarks & Test conditions                                                                                                                                                                                                                                                                          |                                                                                                                                   |
| <p>1. Test Report Ref. No. : 16-029442-01 (2016.10.11)</p> <p>2. Product Description</p> <ul style="list-style-type: none"> <li>- Measured power consumption: 65 W</li> <li>- Class of equipment: Class I</li> <li>- Protection against ingress of water: IPX0</li> <li>- Mass of equipment (kg): 0.3 kg</li> </ul> |                                                                                                                                   |
| <p>□ 본 제품의 검토내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하시기 바랍니다.<br/>검토 담당자 : 고객지원본부 인증융합평가센터 장 재용 / 02-8601-137</p> <p>□ If you have any question on product review, please contact the person below :<br/>Job holder: Customer Support Division, Certification Convergence Evaluation Center, J.Y. Jang / +82 2 860-1137</p>   |                                                                                                                                   |

FP511-05



☐ 첨부 3 : 안전인증의 변경 현황  
Revisions Status

| 변경발급 내용<br>Contents of Certificate Revisions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1<sup>st</sup> Rev.) Change of X-Capacitor (C1) (18-001463-02-2: 2018.01.15)</p> <ul style="list-style-type: none"> <li>- X-Capacitor (C1) Optional</li> <li>- Change of Capacitance for X-Capacitor (C1)<br/>(except for model MXP (Joey), HQX (Ultra Tech Xiphi Enterprise Co., Ltd.)):<br/>From 0.47 uF to Max. 2.2 uF</li> <li>- Change of Capacitance for X-Capacitor (C1)<br/>(for model MXP (Joey), HQX (Ultra Tech Xiphi Enterprise Co., Ltd.) only):<br/>From 0.47 uF to Max. 1.0 uF</li> </ul> <p>2<sup>nd</sup> Rev.) Change of manufacturer president and address (22-081377-31-1 : 2023.02.21.)</p> <ul style="list-style-type: none"> <li>- Before : Mr. Jerry Lin /<br/>No. 77, Jian-Min Road, Dong-Qiao, Pan-Yang Ind. Park, Huang-Dai Town, Xiang<br/>Cheng District, Suzhou, Jiangsu 215152, P.R. China</li> <li>- After : Alan Liu /<br/>No.269, ChangPing Road, Huangdai Town, Xiangcheng District, Suzhou, China</li> </ul> <p>3<sup>rd</sup> Rev.) Change of PCB layout and addition of components (23-011998-03-1 : 2023.03.24.)</p> <ul style="list-style-type: none"> <li>- KC standard update : K 60950-1 → KC 62368-1</li> <li>- Update component list</li> <li>- CB Certificate Ref. No.: JPTUV-132693-M1 (TÜV Rheinland Japan Ltd.)</li> <li>- CB Test Report No.: CN22RVZ6 002 (TÜV Rheinland Shanghai Co., Ltd.)</li> </ul> |

FP511-06

접 수 번 호 : 22-081377-31-1  
(Receipt No.)



# 안 전 인 증 서

## Safety Certificate

안 전 인 증 번 호 : SU10509-16020B  
(Certificate No.)

제 조 업 자/수 입 업 자 명 : SuZhou MEAN WELL Technology Co., Ltd.  
(Manufacturer/importer)

주 소 : No.269, ChangPing Road, Huangdai Town, Xiangcheng District,  
(Address) Suzhou, China

제 품 명 : 직류전원장치(AC/DC Switching Adaptor)  
(Product)

기 본 모 델 명 : GST60A48  
(Basic Model)

파 생 모 델 명 : See the attachment 2  
(Series Model)

정격/안전기준상의 모델구분 : 100-240 Vac, 50/60 Hz, 1.4 A,  
(Rating) (Output: 48 Vdc, 1.25 A, 60 W MAX.)

시 험 기 준 : K60950-1(2011-12)  
(Standard)

본 인증서는 제 조 국 명 : 중국  
제 조 업 자 명 : SuZhou MEAN WELL Technology Co., Ltd.  
제조공장의 주소 : No.269, ChangPing Road, Huangdai Town, Xiangcheng District, Suzhou, China  
의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항, 제4항, 제10조제2항 또는 제15조제2항에 따라 안전인증서를 발급합니다.

We Issue This Safety Certificate for the above appliances in accordance with the Article 9(2), 9(4), 10(2) or 15(2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2023 년 02 월 21 일  
Year month day

한국산업기술시험원  
KOREA TESTING LABORATORY



※ 이 인증서는 「전기용품 및 생활용품 안전관리법 시행규칙」에 따른 제품의 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

첨부서류

1. 전기용품의 안전관리부품 및 재질목록(List of Critical Components)
2. 기본모델·파생모델의 내용 (Descriptions of the basic and series model)
3. 안전인증의 변경 현황 (Revisions Status)



□ 첨부 1 : 전기용품의 안전관리부품 및 재질목록  
List of Critical Components

| 부품명(회로기호)<br>Component(Part no.)            | 제조사(상표명)<br>Manufacturer(Brand)                    | 모델명(형식)<br>Model(Type)                            | 정격 또는 특성<br>Rating or Characteristics             | 인증마크<br>Tested by |
|---------------------------------------------|----------------------------------------------------|---------------------------------------------------|---------------------------------------------------|-------------------|
| Plastic Enclosure                           | Sabic Innovative Plastics                          | 945, 940                                          | V-0, 120 °C, min.<br>1.8 mm thick                 | UL                |
| AC Inlet                                    | Pronic Electronics (Shenzhen) Co., Ltd.            | PST-101                                           | 10 A, 250 Vac                                     | VDE               |
| (Alternate)                                 | Rong Feng Industrial Co., Ltd.                     | SS-120                                            | 10 A, 250 Vac                                     | VDE               |
| (Alternate)                                 | TECX-UNIONS Technology Corporation                 | TU-301-A,<br>TU-301-AP,<br>TU-301-S,<br>TU-301-SP | 10 A, 250 Vac                                     | VDE               |
| (Alternate)                                 | Rong Feng Industrial Co., Ltd.                     | SS-3B                                             | 16 A, 250 Vac                                     | VDE               |
| Fuse (FS1)                                  | Littelfuse Inc.                                    | 392                                               | T 2 A, 250 V                                      | VDE               |
| (Alternate)                                 | Ever Island Electric Co., Ltd. and Walter Electric | 2010 Serie(s)                                     | T 2 A, 250 V                                      | VDE               |
| (Alternate)                                 | Conquer                                            | MST                                               | T 2 A, 250 V                                      | VDE               |
| X-Capacitor (C1) (Optional) (X1 or X2 type) | Kemet Electronics Italia Srl (Arcotronics SPA)     | R.46                                              | Max. 2.2 uF,<br>Min. 250 Vac,<br>110/125 °C       | ENEC              |
| (Alternate)                                 | Kemet Electronics Italia Srl (Arcotronics SPA)     | R.49                                              | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C           | ENEC              |
| (Alternate)                                 | EPCOS Electronic Components S.A.                   | B3292#                                            | Max. 2.2 uF,<br>Min. 250 Vac,<br>105 °C           | VDE               |
| (Alternate)                                 | ISKRA SISTEMI, d.d.                                | KNB 1530                                          | Max. 2.2 uF,<br>Min. 250 Vac,<br>100 °C           | VDE               |
| (Alternate)                                 | ISKRA SISTEMI, d.d.                                | KNB 1560                                          | Max. 2.2 uF,<br>275 V, 110 °C or<br>300 V, 125 °C | VDE               |
| (Alternate)                                 | Liow Gu Electronics Industry Co. Ltd.              | GS-L                                              | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C           | ENEC              |
| (Alternate)                                 | Pilkor Electronics Ltd.                            | PCX2 335M                                         | Max. 2.2 uF,<br>Min. 250 Vac,<br>105 °C           | ENEC              |
| (Alternate)                                 | Pilkor Electronics Ltd.                            | PCX2 337                                          | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C           | ENEC              |



| 부품명(회로기호)<br>Component(Part no.)                      | 제조사(상표명)<br>Manufacturer(Brand)         | 모델명(형식)<br>Model(Type) | 정격 또는 특성<br>Rating or Characteristics                                                | 인증마크<br>Tested by |
|-------------------------------------------------------|-----------------------------------------|------------------------|--------------------------------------------------------------------------------------|-------------------|
| (Alternate)                                           | VISHAY<br>Capacitors<br>Belgium NV      | 339                    | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C                                              | ENEC              |
| (Alternate)                                           | Cheng Tung<br>Industrial Co., Ltd.      | CTX                    | Max. 2.2 uF,<br>Min. 250 Vac,<br>100 °C                                              | VDE               |
| (Alternate)                                           | Shiny Space<br>Enterprise<br>Co., Ltd.  | SX1                    | Max. 2.2 uF,<br>Min. 250 Vac,<br>100 °C                                              | VDE               |
| (Alternate)                                           | Xiamen<br>Faratronic                    | MKP62                  | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C                                              | VDE               |
| (Alternate)                                           | Hua Jung                                | MKP                    | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C                                              | VDE               |
| (Alternate)                                           | Carli                                   | MPX                    | Max. 2.2 uF,<br>Min. 250 Vac,<br>100 or 110 °C                                       | VDE               |
| (Alternate)                                           | EPCOS Electronic<br>Components S.A.     | B3292#CD series        | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C                                              | ENEC              |
| (Alternate)                                           | Joey                                    | MPX                    | Max. 1.0 uF,<br>Min. 250 Vac,<br>105 °C                                              | VDE               |
| (Alternate)                                           | Ultra Tech Xiphi<br>Enterprise Co. Ltd. | HQX                    | Max. 1.0 uF,<br>Min. 250 Vac,<br>100 °C                                              | VDE               |
| Y-Capacitors<br>(C30, C31, C32,<br>C34)<br>(Y1 or Y2) | Murata Mfg.<br>Co., Ltd.                | KH, KX, KY             | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C | VDE               |
| (Alternate)                                           | TDK-EPC<br>Corporation                  | CD, CS                 | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C | VDE               |
| (Alternate)                                           | Walsin<br>Technology Corp               | AH, AC                 | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C | VDE               |

| 부품명(회로기호)<br>Component(Part no.)       | 제조사(상표명)<br>Manufacturer(Brand)                              | 모델명(형식)<br>Model(Type)          | 정격 또는 특성<br>Rating or Characteristics                                                 | 인증마크<br>Tested by |
|----------------------------------------|--------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------|-------------------|
| (Alternate)                            | Welson Industrial Co., Ltd.                                  | WD, KL                          | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C  | VDE               |
| (Alternate)                            | VISHAT                                                       | 338 6                           | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C  | VDE               |
| Bridge Capacitor<br>(C33)<br>(Y1 type) | Murata Mfg. Co., Ltd.                                        | KX                              | Max. 2200 pF,<br>Min. 250 Vac,<br>125 °C                                              | VDE               |
| (Alternate)                            | TDK-EPC Corporation                                          | CD                              | Max. 2200 pF,<br>Min. 250 Vac,<br>125 °C                                              | VDE               |
| (Alternate)                            | Walsin Technology Corp                                       | AH                              | Max. 2200 pF,<br>Min. 250 Vac,<br>125 °C                                              | VDE               |
| (Alternate)                            | Welson Industrial Co., Ltd.                                  | WD                              | Max. 2200 pF,<br>Min. 250 Vac,<br>125 °C                                              | VDE               |
| Photo Coupler<br>(U3)                  | Lite-On Technology Corporation                               | LTV-817,<br>LTV-817M,<br>LTV817 | Dti=0.4 mm,<br>Int. dcr=5.2 mm,<br>Ext. dcr=7.0mm,<br>thermal cycling<br>test, 115 °C | VDE, FIMKO        |
| (Alternate)                            | Sharp Corporation Electronic Components and Devices Division | PC123                           | Dti=0.4 mm,<br>Ext. dcr=8.0 mm,<br>thermal cycle<br>test, 110 °C                      | VDE, Semko        |
| (Alternate)                            | COSMO Electronics Corporation                                | K1010                           | Dti=0.7 mm,<br>Ext. dcr=8.0 mm,<br>thermal cycle<br>test, 100 °C                      | VDE, Semko        |
| (Alternate)                            | Toshiba Corp, Semiconductor Co Discrete Semiconductor Div    | TLP785F                         | Di=0.6 mm,<br>Int. dcr=5.0 mm,<br>Ext. dcr=8 mm,<br>thermal cycling<br>test, 115 °C   | VDE               |
| (Alternate)                            | Toshiba Corp, Semiconductor Co Discrete Semiconductor Div    | TLP785                          | Di=0.6 mm,<br>Int. dcr=5.0 mm,<br>Ext. dcr=6.5 mm,<br>thermal cycling<br>test, 115 °C | VDE               |

| 부품명(회로기호)<br>Component(Part no.)              | 제조사(상표명)<br>Manufacturer(Brand)                                       | 모델명(형식)<br>Model(Type)                                                                                                                                        | 정격 또는 특성<br>Rating or Characteristics                                                 | 인증마크<br>Tested by        |
|-----------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------|
| (Alternate)                                   | Toshiba Corp,<br>Semiconductor<br>Co Discrete<br>Semiconductor<br>Div | TLP781F                                                                                                                                                       | Di=0.6 mm,<br>Int. dcr=5.0 mm,<br>Ext. dcr=8 mm,<br>thermal cycling<br>test, 115 °C   | VDE                      |
| (Alternate)                                   | Toshiba Corp,<br>Semiconductor<br>Co Discrete<br>Semiconductor<br>Div | TLP781                                                                                                                                                        | Di=0.6 mm,<br>Int. dcr=5.0 mm,<br>Ext. dcr=6.5 mm,<br>thermal cycling<br>test, 115 °C | VDE                      |
| Transformer<br>(T1)<br>(for model<br>GST60Ax) | Long Sail<br>Electronic<br>Co., Ltd.                                  | TF-1740A<br>(for x=09),<br>TF-1741A<br>(for x=12),<br>TF-1742A<br>(for x=15),<br>TF-1743A<br>(for x=18),<br>TF-1744A<br>(for x=24),<br>TF-1745A<br>(for x=48) | Class B                                                                               | Tested with<br>appliance |
| (Alternate)                                   | Jet Signal<br>Industries<br>Co., Ltd.                                 | TF-1740A<br>(for x=09),<br>TF-1741A<br>(for x=12),<br>TF-1742A<br>(for x=15),<br>TF-1743A<br>(for x=18),<br>TF-1744A<br>(for x=24),<br>TF-1745A<br>(for x=48) | Class B                                                                               | Tested with<br>appliance |
| (Alternate)                                   | Mean Well                                                             | TF-1740A<br>(for x=09),<br>TF-1741A<br>(for x=12),<br>TF-1742A<br>(for x=15),<br>TF-1743A<br>(for x=18),<br>TF-1744A<br>(for x=24),<br>TF-1745A<br>(for x=48) | Class B                                                                               | Tested with<br>appliance |



| 부품명(회로기호)<br>Component(Part no.) | 제조사(상표명)<br>Manufacturer(Brand)     | 모델명(형식)<br>Model(Type) | 정격 또는 특성<br>Rating or Characteristics                                                            | 인증마크<br>Tested by        |
|----------------------------------|-------------------------------------|------------------------|--------------------------------------------------------------------------------------------------|--------------------------|
| Discharging IC<br>(U1)           | NXP<br>Semiconductor<br>Taiwan Ltd. | TEA18362T              | 100-240 Vac,<br>47-63 Hz.<br>X-Caps.:<br>0.22- 2.2 $\mu$ F.<br>Resistors:<br>120- 200 k $\Omega$ | DEMKO                    |
| PCB                              | Interchangeable                     | Interchangeable        | V-1 or better,<br>min. 130 °C                                                                    | UL                       |
| Bleeder Resistors<br>(R12, R15)  | Interchangeable                     | Interchangeable        | Total 120-200k $\Omega$ ,<br>max. 1/4 W                                                          | Tested with<br>appliance |

☐ 유의사항 (Attention) :

1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장검사 시 확인 관리 하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등재를 원하시는 경우는 안전인증기관에 인증변경신청을 하여야 합니다.

*As the "Critical components" are parts in directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying multiple listing or changing the items above, the certification revision shall be applied.*

2. 인증변경신청 없이 임의로 변경하는 경우는, 전기용품 및 생활용품 안전관리법 시행규칙 제 20 조제 1 항 또는 제 36 조제 1 항 규정에 의한 안전인증 취소 혹은 안전확인신고 효력상실 사유가 됨을 유의하시기 바랍니다.

*The Safety Certification will be cancelled under the Article 20(1), 36(1) of the Enforcement Rule of the Electrical appliances and Consumer Products Safety Control Act if the contents of the Certification is altered without our authorization.*

□ 첨부 2 : 기본모델 · 파생모델의 내용  
Description of the basic and series model

| 파생모델명<br>Derivative model                                                                                                                                                                                                                                                                                                          | 기본모델과의 차이점<br>Differences between the basic and derivative model(s)                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| GST60A09                                                                                                                                                                                                                                                                                                                           | Same as basic model except for transformer type, output rating and model designation.<br>Output rating: 9 Vdc, 6.0 A, 54 W MAX.   |
| GST60A12                                                                                                                                                                                                                                                                                                                           | Same as basic model except for transformer type, output rating and model designation.<br>Output rating: 12 Vdc, 5.0 A, 60 W MAX.  |
| GST60A15                                                                                                                                                                                                                                                                                                                           | Same as basic model except for transformer type, output rating and model designation.<br>Output rating: 15 Vdc, 4.0 A, 60 W MAX.  |
| GST60A18                                                                                                                                                                                                                                                                                                                           | Same as basic model except for transformer type, output rating and model designation.<br>Output rating: 18 Vdc, 3.33 A, 60 W MAX. |
| GST60A24                                                                                                                                                                                                                                                                                                                           | Same as basic model except for transformer type, output rating and model designation.<br>Output rating: 24 Vdc, 2.5 A, 60 W MAX.  |
| 제품특기사항 및 시험조건<br>Remarks & Test conditions                                                                                                                                                                                                                                                                                         |                                                                                                                                   |
| <p>1. Test Report Ref. No. : 16-029442-01 (2016.10.11)</p> <p>2. Product Description</p> <ul style="list-style-type: none"> <li>- Measured power consumption: 65 W</li> <li>- Class of equipment: Class I</li> <li>- Protection against ingress of water: IPX0</li> <li>- Mass of equipment (kg): 0.3 kg</li> </ul>                |                                                                                                                                   |
| <p>□ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다.<br/>시험 담당자 / 연락처 : 디지털산업본부 전기전자기술센터 박 일우 / 02-860-1436</p> <p>□ If you have any question on product testing, please contact the person below :<br/>Job holder : S.M.A.R.T. Industry Division, Electrical and Electronic Technology Center, Park Il-Woo / +82 2 860-1436</p> |                                                                                                                                   |

FP511-05

☐ 첨부 3 : 안전인증의 변경 현황  
Revisions Status

변경발급 내용  
Contents of Certificate Revisions

1<sup>st</sup> Rev.) Change of X-Capacitor (C1) (18-001463-02-2: 2018.01.15)

- X-Capacitor (C1) Optional
- Change of Capacitance for X-Capacitor (C1)  
(except for model MXP (Joey), HQX (Ultra Tech Xiphi Enterprise Co., Ltd.)):  
From 0.47 uF to Max. 2.2 uF
- Change of Capacitance for X-Capacitor (C1)  
(for model MXP (Joey), HQX (Ultra Tech Xiphi Enterprise Co., Ltd.) only):  
From 0.47 uF to Max. 1.0 uF

2<sup>nd</sup> Rev.) Change of manufacturer president and address (22-081377-31-1 : 2023.02.21.)

- Before : Mr. Jerry Lin /  
No. 77, Jian-Min Road, Dong-Qiao, Pan-Yang Ind. Park, Huang-Dai Town, Xiang  
Cheng District, Suzhou, Jiangsu 215152, P.R. China
- After : Alan Liu /  
No.269, ChangPing Road, Huangdai Town, Xiangcheng District, Suzhou, China

FP511-06



접 수 번 호 : 18-001463-02-1  
(Receipt No.)



## 안 전 인 증 서

### Safety Certificate

안 전 인 증 번 호 : SU10509-16020A  
(Certificate No.)

제 조 업 자/수 입 업 자 명 : SuZhou MEAN WELL Technology Co., Ltd  
(Manufacturer/importer)

주 소 : No. 77, Jian-min Road, Dong-qiao, Pan-yang Ind. Park, Huang-dai  
(Address) Town, Xiang-cheng District, Suzhou, Jiangsu 215152, P.R. China

제 품 명 : 직류전원장치(AC/DC Switching Adaptor)  
(Product)

기 본 모 델 명 : GST60A48  
(Basic Model)

파 생 모 델 명 : See the attachment 2  
(Series Model)

정격/안전기준상의 모델구분 : 100-240 Vac, 50/60 Hz, 1.4 A,  
(Rating) (Output: 48 Vdc, 1.25 A, 60 W MAX.)

시 험 기 준 : K60950-1(2011-12)  
(Standard)

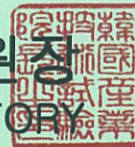
본 인증서는 제 조 국 명 : 중국  
제 조 업 자 명 : SuZhou MEAN WELL Technology Co., Ltd.  
제조공장의 주소 : No. 77, Jian-Min Road, Dong-Qiao, Pan-Yang Ind. Park, Hu  
ang-Dai Town, Xiang-Cheng District, Suzhou, Jiangsu 21515  
2, P.R. China  
의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항·제4항 또는 제10조제2항에 따라 안전인증서를 발급합니다.

We Issue This Safety Certificate for the above appliances in accordance with the Article 9(2),9(4) or10 (2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2018 년 01 월 16 일  
Year month day

한국산업기술시험원  
KOREA TESTING LABORATORY



※ 이 인증서는 「전기용품 및 생활용품 안전관리법 시행규칙」에 따른 제품의 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

첨부서류

1. 전기용품의 안전관리부품 및 재질목록(List of Critical Components)
2. 기본모델·파생모델의 내용 (Descriptions of the basic and series model)
3. 안전인증의 변경 현황 (Revisions Status)



□ 첨부 1 : 전기용품의 안전관리부품 및 재질목록  
List of Critical Components

| 부품명(회로기호)<br>Component(Part no.)                  | 제조사(상표명)<br>Manufacturer(Brand)                    | 모델명(형식)<br>Model(Type)                            | 정격 또는 특성<br>Rating or Characteristics             | 인증마크<br>Tested by |
|---------------------------------------------------|----------------------------------------------------|---------------------------------------------------|---------------------------------------------------|-------------------|
| Plastic Enclosure                                 | Sabic Innovative Plastics                          | 945, 940                                          | V-0, 120 °C, min.<br>1.8 mm thick                 | UL                |
| AC Inlet                                          | Pronic Electronics (Shenzhen) Co., Ltd.            | PST-101                                           | 10 A, 250 Vac                                     | VDE               |
| (Alternate)                                       | Rong Feng Industrial Co., Ltd.                     | SS-120                                            | 10 A, 250 Vac                                     | VDE               |
| (Alternate)                                       | TECX-UNIONS Technology Corporation                 | TU-301-A,<br>TU-301-AP,<br>TU-301-S,<br>TU-301-SP | 10 A, 250 Vac                                     | VDE               |
| (Alternate)                                       | Rong Feng Industrial Co., Ltd.                     | SS-3B                                             | 16 A, 250 Vac                                     | VDE               |
| Fuse (FS1)                                        | Littelfuse Inc.                                    | 392                                               | T 2 A, 250 V                                      | VDE               |
| (Alternate)                                       | Ever Island Electric Co., Ltd. and Walter Electric | 2010 Serie(s)                                     | T 2 A, 250 V                                      | VDE               |
| (Alternate)                                       | Conquer                                            | MST                                               | T 2 A, 250 V                                      | VDE               |
| X-Capacitor (C1)<br>(Optional)<br>(X1 or X2 type) | Kemet Electronics Italia Srl (Arcotronics SPA)     | R.46                                              | Max. 2.2 uF,<br>Min. 250 Vac,<br>110/125 °C       | ENEC              |
| (Alternate)                                       | Kemet Electronics Italia Srl (Arcotronics SPA)     | R.49                                              | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C           | ENEC              |
| (Alternate)                                       | EPCOS Electronic Components S.A.                   | B3292#                                            | Max. 2.2 uF,<br>Min. 250 Vac,<br>105 °C           | VDE               |
| (Alternate)                                       | ISKRA SISTEMI, d.d.                                | KNB 1530                                          | Max. 2.2 uF,<br>Min. 250 Vac,<br>100 °C           | VDE               |
| (Alternate)                                       | ISKRA SISTEMI, d.d.                                | KNB 1560                                          | Max. 2.2 uF,<br>275 V, 110 °C or<br>300 V, 125 °C | VDE               |
| (Alternate)                                       | Liow Gu Electronics Industry Co. Ltd.              | GS-L                                              | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C           | ENEC              |
| (Alternate)                                       | Pilkor Electronics Ltd.                            | PCX2 335M                                         | Max. 2.2 uF,<br>Min. 250 Vac,<br>105 °C           | ENEC              |
| (Alternate)                                       | Pilkor Electronics Ltd.                            | PCX2 337                                          | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C           | ENEC              |

| 부품명(회로기호)<br>Component(Part no.)                      | 제조사(상표명)<br>Manufacturer(Brand)         | 모델명(형식)<br>Model(Type) | 정격 또는 특성<br>Rating or Characteristics                                                | 인증마크<br>Tested by |
|-------------------------------------------------------|-----------------------------------------|------------------------|--------------------------------------------------------------------------------------|-------------------|
| (Alternate)                                           | VISHAY<br>Capacitors<br>Belgium NV      | 339                    | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C                                              | ENEC              |
| (Alternate)                                           | Cheng Tung<br>Industrial Co., Ltd.      | CTX                    | Max. 2.2 uF,<br>Min. 250 Vac,<br>100 °C                                              | VDE               |
| (Alternate)                                           | Shiny Space<br>Enterprise<br>Co., Ltd.  | SX1                    | Max. 2.2 uF,<br>Min. 250 Vac,<br>100 °C                                              | VDE               |
| (Alternate)                                           | Xiamen<br>Faratronic                    | MKP62                  | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C                                              | VDE               |
| (Alternate)                                           | Hua Jung                                | MKP                    | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C                                              | VDE               |
| (Alternate)                                           | Carli                                   | MPX                    | Max. 2.2 uF,<br>Min. 250 Vac,<br>100 or 110 °C                                       | VDE               |
| (Alternate)                                           | EPCOS Electronic<br>Components S.A.     | B3292#CD series        | Max. 2.2 uF,<br>Min. 250 Vac,<br>110 °C                                              | ENEC              |
| (Alternate)                                           | Joey                                    | MPX                    | Max. 1.0 uF,<br>Min. 250 Vac,<br>105 °C                                              | VDE               |
| (Alternate)                                           | Ultra Tech Xiphi<br>Enterprise Co. Ltd. | HQX                    | Max. 1.0 uF,<br>Min. 250 Vac,<br>100 °C                                              | VDE               |
| Y-Capacitors<br>(C30, C31, C32,<br>C34)<br>(Y1 or Y2) | Murata Mfg.<br>Co., Ltd.                | KH, KX, KY             | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C | VDE               |
| (Alternate)                                           | TDK-EPC<br>Corporation                  | CD, CS                 | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C | VDE               |
| (Alternate)                                           | Walsin<br>Technology Corp               | AH, AC                 | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C | VDE               |



| 부품명(회로기호)<br>Component(Part no.)       | 제조사(상표명)<br>Manufacturer(Brand)                              | 모델명(형식)<br>Model(Type)          | 정격 또는 특성<br>Rating or Characteristics                                                 | 인증마크<br>Tested by |
|----------------------------------------|--------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------|-------------------|
| (Alternate)                            | Welson Industrial Co., Ltd.                                  | WD, KL                          | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C  | VDE               |
| (Alternate)                            | VISHAT                                                       | 338 6                           | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C  | VDE               |
| Bridge Capacitor<br>(C33)<br>(Y1 type) | Murata Mfg. Co., Ltd.                                        | KX                              | Max. 2200 pF,<br>Min. 250 Vac,<br>125 °C                                              | VDE               |
| (Alternate)                            | TDK-EPC Corporation                                          | CD                              | Max. 2200 pF,<br>Min. 250 Vac,<br>125 °C                                              | VDE               |
| (Alternate)                            | Walsin Technology Corp                                       | AH                              | Max. 2200 pF,<br>Min. 250 Vac,<br>125 °C                                              | VDE               |
| (Alternate)                            | Welson Industrial Co., Ltd.                                  | WD                              | Max. 2200 pF,<br>Min. 250 Vac,<br>125 °C                                              | VDE               |
| Photo Coupler<br>(U3)                  | Lite-On Technology Corporation                               | LTV-817,<br>LTV-817M,<br>LTV817 | Dti=0.4 mm,<br>Int. dcr=5.2 mm,<br>Ext. dcr=7.0mm,<br>thermal cycling<br>test, 115 °C | VDE, FIMKO        |
| (Alternate)                            | Sharp Corporation Electronic Components and Devices Division | PC123                           | Dti=0.4 mm,<br>Ext. dcr=8.0 mm,<br>thermal cycle<br>test, 110 °C                      | VDE, Semko        |
| (Alternate)                            | COSMO Electronics Corporation                                | K1010                           | Dti=0.7 mm,<br>Ext. dcr=8.0 mm,<br>thermal cycle<br>test, 100 °C                      | VDE, Semko        |
| (Alternate)                            | Toshiba Corp, Semiconductor Co Discrete Semiconductor Div    | TLP785F                         | Di=0.6 mm,<br>Int. dcr=5.0 mm,<br>Ext. dcr=8 mm,<br>thermal cycling<br>test, 115 °C   | VDE               |
| (Alternate)                            | Toshiba Corp, Semiconductor Co Discrete Semiconductor Div    | TLP785                          | Di=0.6 mm,<br>Int. dcr=5.0 mm,<br>Ext. dcr=6.5 mm,<br>thermal cycling<br>test, 115 °C | VDE               |

| 부품명(회로기호)<br>Component(Part no.)              | 제조사(상표명)<br>Manufacturer(Brand)                                       | 모델명(형식)<br>Model(Type)                                                                                                                                        | 정격 또는 특성<br>Rating or Characteristics                                                 | 인증마크<br>Tested by        |
|-----------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------|
| (Alternate)                                   | Toshiba Corp,<br>Semiconductor<br>Co Discrete<br>Semiconductor<br>Div | TLP781F                                                                                                                                                       | Di=0.6 mm,<br>Int. dcr=5.0 mm,<br>Ext. dcr=8 mm,<br>thermal cycling<br>test, 115 °C   | VDE                      |
| (Alternate)                                   | Toshiba Corp,<br>Semiconductor<br>Co Discrete<br>Semiconductor<br>Div | TLP781                                                                                                                                                        | Di=0.6 mm,<br>Int. dcr=5.0 mm,<br>Ext. dcr=6.5 mm,<br>thermal cycling<br>test, 115 °C | VDE                      |
| Transformer<br>(T1)<br>(for model<br>GST60Ax) | Long Sail<br>Electronic<br>Co., Ltd.                                  | TF-1740A<br>(for x=09),<br>TF-1741A<br>(for x=12),<br>TF-1742A<br>(for x=15),<br>TF-1743A<br>(for x=18),<br>TF-1744A<br>(for x=24),<br>TF-1745A<br>(for x=48) | Class B                                                                               | Tested with<br>appliance |
| (Alternate)                                   | Jet Signal<br>Industries<br>Co., Ltd.                                 | TF-1740A<br>(for x=09),<br>TF-1741A<br>(for x=12),<br>TF-1742A<br>(for x=15),<br>TF-1743A<br>(for x=18),<br>TF-1744A<br>(for x=24),<br>TF-1745A<br>(for x=48) | Class B                                                                               | Tested with<br>appliance |
| (Alternate)                                   | Mean Well                                                             | TF-1740A<br>(for x=09),<br>TF-1741A<br>(for x=12),<br>TF-1742A<br>(for x=15),<br>TF-1743A<br>(for x=18),<br>TF-1744A<br>(for x=24),<br>TF-1745A<br>(for x=48) | Class B                                                                               | Tested with<br>appliance |

| 부품명(회로기호)<br>Component(Part no.) | 제조사(상표명)<br>Manufacturer(Brand)     | 모델명(형식)<br>Model(Type) | 정격 또는 특성<br>Rating or Characteristics                                                            | 인증마크<br>Tested by        |
|----------------------------------|-------------------------------------|------------------------|--------------------------------------------------------------------------------------------------|--------------------------|
| Discharging IC<br>(U1)           | NXP<br>Semiconductor<br>Taiwan Ltd. | TEA18362T              | 100-240 Vac,<br>47-63 Hz.<br>X-Caps.:<br>0.22- 2.2 $\mu$ F.<br>Resistors:<br>120- 200 k $\Omega$ | DEMKO                    |
| PCB                              | Interchangeable                     | Interchangeable        | V-1 or better,<br>min. 130 °C                                                                    | UL                       |
| Bleeder Resistors<br>(R12, R15)  | Interchangeable                     | Interchangeable        | Total 120-200k $\Omega$ ,<br>max. 1/4 W                                                          | Tested with<br>appliance |

☐ 유의사항 (Attention) :

1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장검사 시 확인 관리 하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등재를 원하시는 경우는 안전인증기관에 인증변경신청을 하여야 합니다.

*As the "Critical components" are parts in directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying multiple listing or changing the items above, the certification revision shall be applied.*

2. 인증변경신청 없이 임의로 변경하는 경우는, 전기용품 및 생활용품 안전관리법 시행규칙 제 20 조제 1 항 또는 제 36 조제 1 항 규정에 의한 안전인증 취소 혹은 안전확인신고 효력상실 사유가 됨을 유의하시기 바랍니다.

*The Safety Certification will be cancelled under the Article 20(1), 36(1) of the Enforcement Rule of the Electrical appliances and Consumer Products Safety Control Act if the contents of the Certification is altered without our authorization.*



□ 첨부 2 : 기본모델 · 파생모델의 내용  
Description of the basic and series model

| 파생모델명<br>Derivative model                                                                                                                                                                                                                                                                                            | 기본모델과의 차이점<br>Differences between the basic and derivative model(s)                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| GST60A09                                                                                                                                                                                                                                                                                                             | Same as basic model except for transformer type, output rating and model designation.<br>Output rating: 9 Vdc, 6.0 A, 54 W MAX.   |
| GST60A12                                                                                                                                                                                                                                                                                                             | Same as basic model except for transformer type, output rating and model designation.<br>Output rating: 12 Vdc, 5.0 A, 60 W MAX.  |
| GST60A15                                                                                                                                                                                                                                                                                                             | Same as basic model except for transformer type, output rating and model designation.<br>Output rating: 15 Vdc, 4.0 A, 60 W MAX.  |
| GST60A18                                                                                                                                                                                                                                                                                                             | Same as basic model except for transformer type, output rating and model designation.<br>Output rating: 18 Vdc, 3.33 A, 60 W MAX. |
| GST60A24                                                                                                                                                                                                                                                                                                             | Same as basic model except for transformer type, output rating and model designation.<br>Output rating: 24 Vdc, 2.5 A, 60 W MAX.  |
| 제품특기사항 및 시험조건<br>Remarks & Test conditions                                                                                                                                                                                                                                                                           |                                                                                                                                   |
| <p>1. Test Report Ref. No. : 16-029442-01 (2016.10.11)</p> <p>2. Product Description</p> <ul style="list-style-type: none"> <li>- Measured power consumption: 65 W</li> <li>- Class of equipment: Class I</li> <li>- Protection against ingress of water: IPX0</li> <li>- Mass of equipment (kg): 0.3 kg</li> </ul>  |                                                                                                                                   |
| <p>□ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다.<br/> 시험담당자 : 인증산업본부 정보조명평가센터 박 일우 / 02-860-1436</p> <p>□ If you have any question on product testing, please contact the person below :<br/> Job holder : Certification Business Division, IT &amp; Lighting Testing Center, Park Il-Woo / +82 2 860-1436</p> |                                                                                                                                   |

FP511-05

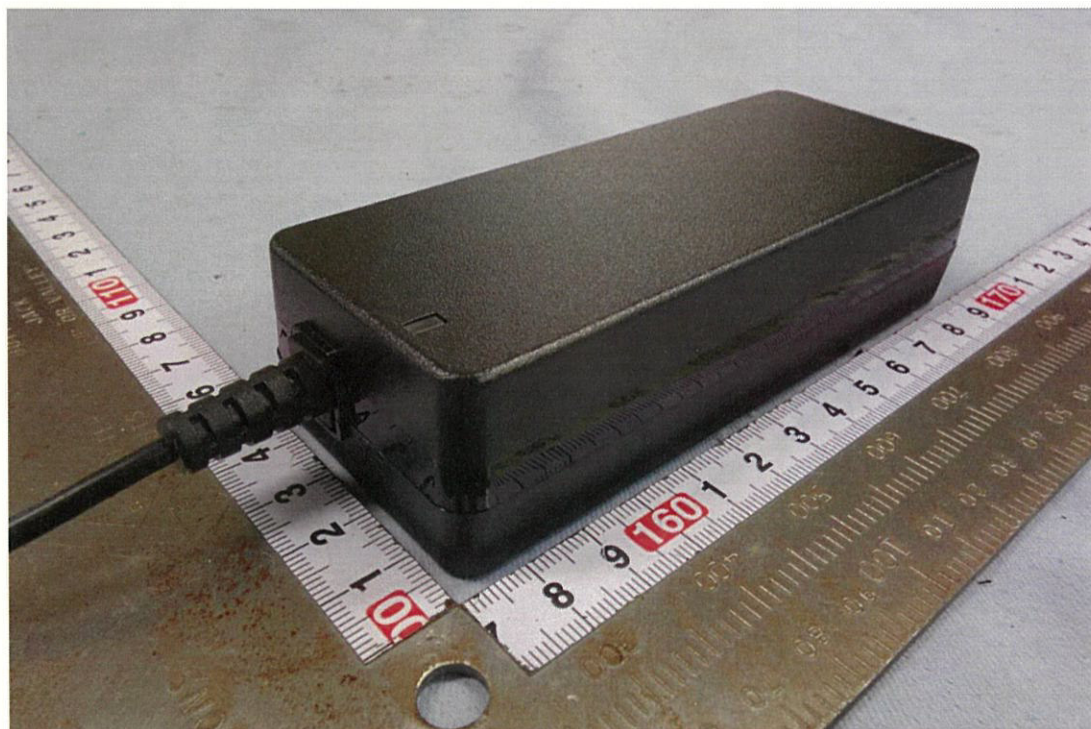
☐ 첨부 3 : 안전인증의 변경 현황  
Revisions Status

| 변경발급 내용<br>Contents of Certificate Revisions                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1<sup>st</sup> Rev.) Change of X-Capacitor (C1) (18-001463-02-2: 2018.01.15)</p> <ul style="list-style-type: none"> <li>- X-Capacitor (C1) Optional</li> <li>- Change of Capacitance for X-Capacitor (C1)<br/>(except for model MXP (Joey), HQX (Ultra Tech Xiphi Enterprise Co., Ltd.)):<br/>From 0.47 uF to Max. 2.2 uF</li> <li>- Change of Capacitance for X-Capacitor (C1)<br/>(for model MXP (Joey), HQX (Ultra Tech Xiphi Enterprise Co., Ltd.) only):<br/>From 0.47 uF to Max. 1.0 uF</li> </ul> |

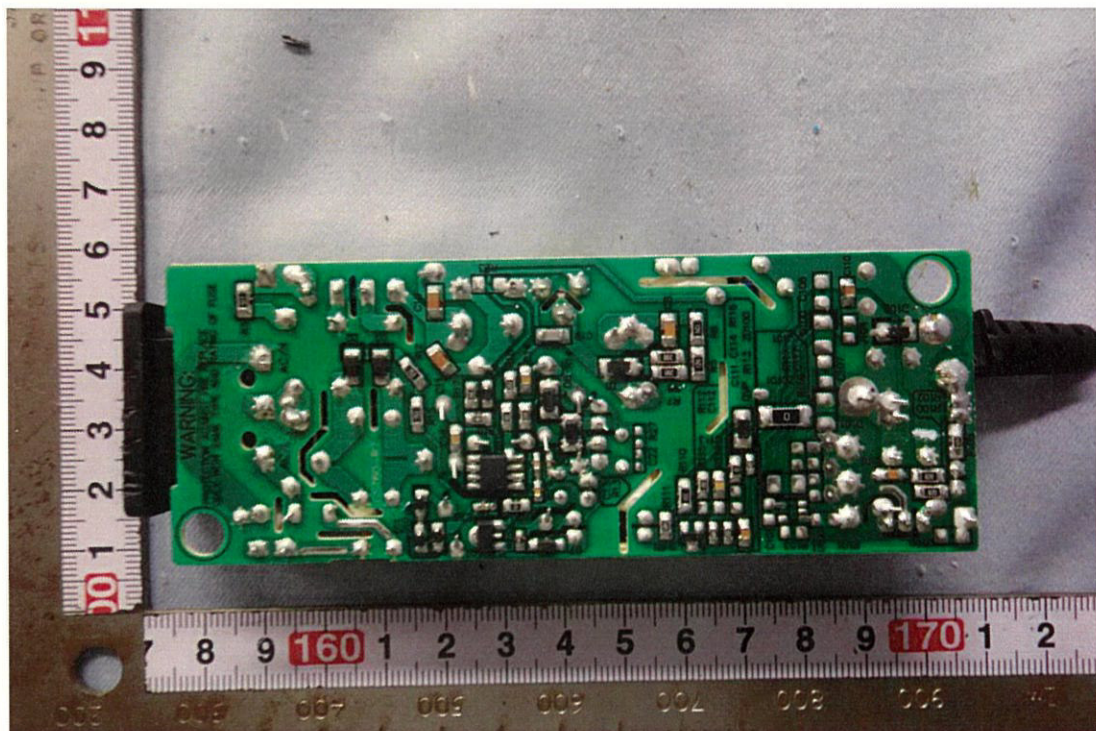
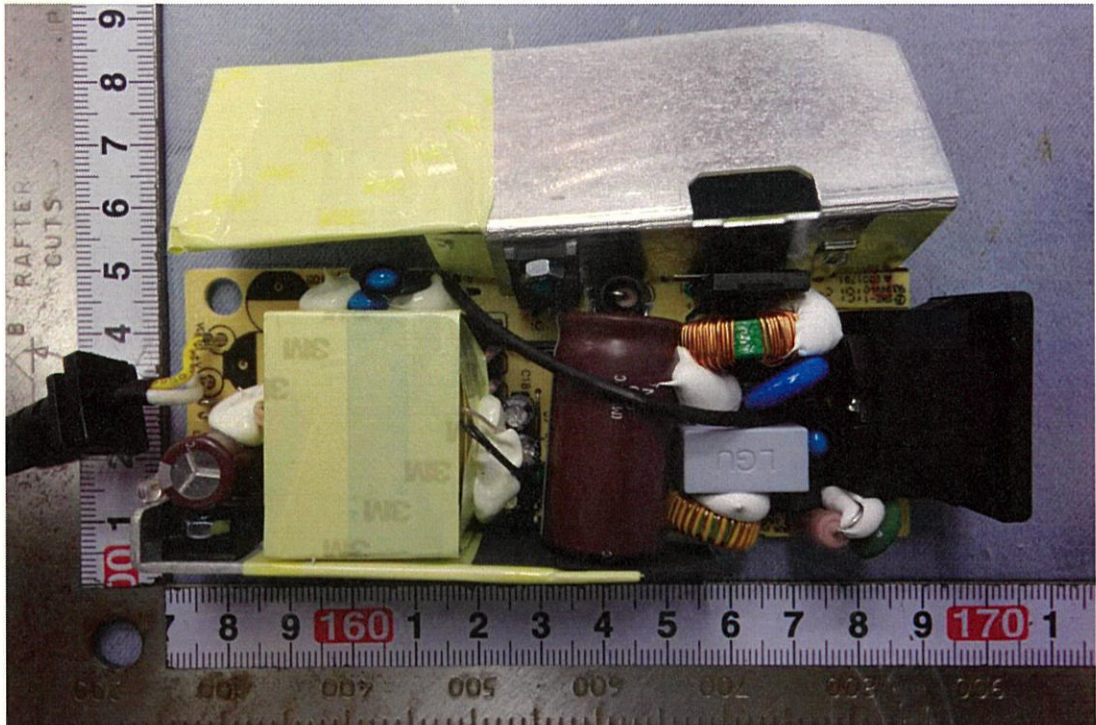
FP511-06



☐ 첨부 : 제품사진  
Photographs









접 수 번 호 : 16-029442-01  
(Receipt No.)



# 전 기 용 품 안 전 인 증 서

## Electrical Appliances Safety Certificate

안 전 인 증 번 호 : SU10509-16020  
(Certificate No.)

제 조 업 자 명 : SuZhou MEAN WELL Technology Co., Ltd.  
(Manufacturer)

대 표 자 명 : Mr. Jerry Lin  
(President)

제조공장의 주소 : No. 77, Jian-Min Road, Dong-Qiao, Pan-Yang Ind. Park,  
(Factory Address) Huang-Dai Town, Xiang-Cheng District, Suzhou, Jiangsu 215152,  
P.R. China

제 품 명 : 직류전원장치(AC/DC Switching Adaptor)  
(Product)

기 본 모 델 명 : GST60A48  
(Basic Model)

정 격 : 100-240 Vac, 50/60 Hz, 1.4 A,  
(Rating) (Output: 48 Vdc, 1.25 A, 60 W MAX.)

파 생 모 델 명 : See the attachment 2  
(Series Model)

적 용 기 준 : K60950-1(2011-12)  
(Standard)

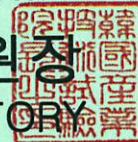
「전기용품안전 관리법 시행규칙」 제6조제2항에 따라 위의 전기용품에 대하여 안전인증서를 발급합니다.

We Issue Electrical Appliances Safety Certification as above product by Article 6 Section 2 of the Electrical Appliances Safety Control Law Enforcement Regulation.

2016 년 10 월 12 일  
Year month day



한국산업기술시험원  
KOREA TESTING LABORATORY



※ 이 인증서는 「전기용품안전 관리법」에 따른 전기용품 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

- 첨 부 : (Annex)
1. 안전관리부품 및 재질목록 (List of Critical Components)
  2. 기본모델·파생모델의 내용 (Descriptions of the basic and series model)
  3. 전기용품안전인증의 변경 현황 (Revisions Status)



□ 첨부 1 : 안전관리부품 및 재질목록

List of Critical Components

| 부품명(회로기호)<br>Component(Part no.)    | 제조사(상표명)<br>Manufacturer(Brand)                    | 모델명(형식)<br>Model(Type)                            | 정격 또는 특성<br>Rating or Characteristics         | 인증마크<br>Tested by |
|-------------------------------------|----------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-------------------|
| Plastic Enclosure                   | Sabic Innovative Plastics                          | 945, 940                                          | V-0, 120 °C, min.<br>1.8 mm thick             | UL                |
| AC Inlet                            | Pronic Electronics (Shenzhen) Co., Ltd.            | PST-101                                           | 10 A, 250 Vac                                 | VDE               |
| (Alternate)                         | Rong Feng Industrial Co., Ltd.                     | SS-120                                            | 10 A, 250 Vac                                 | VDE               |
| (Alternate)                         | TECX-UNIONS Technology Corporation                 | TU-301-A,<br>TU-301-AP,<br>TU-301-S,<br>TU-301-SP | 10 A, 250 Vac                                 | VDE               |
| (Alternate)                         | Rong Feng Industrial Co., Ltd.                     | SS-3B                                             | 16 A, 250 Vac                                 | VDE               |
| Fuse (FS1)                          | Littelfuse Inc.                                    | 392                                               | T 2 A, 250 V                                  | VDE               |
| (Alternate)                         | Ever Island Electric Co., Ltd. and Walter Electric | 2010 Serie(s)                                     | T 2 A, 250 V                                  | VDE               |
| (Alternate)                         | Conquer                                            | MST                                               | T 2 A, 250 V                                  | VDE               |
| X-Capacitor (C1)<br>(X1 or X2 type) | Kemet Electronics Italia Srl (Arcotronics SPA)     | R.46                                              | 0.47 µF,<br>Min. 250 Vac,<br>110/125 °C       | ENEC              |
| (Alternate)                         | Kemet Electronics Italia Srl (Arcotronics SPA)     | R.49                                              | 0.47 µF,<br>Min. 250 Vac,<br>110 °C           | ENEC              |
| (Alternate)                         | EPCOS Electronic Components S.A.                   | B3292#                                            | 0.47 µF,<br>Min. 250 Vac,<br>105 °C           | VDE               |
| (Alternate)                         | ISKRA SISTEMI, d.d.                                | KNB 1530                                          | 0.47 µF,<br>Min. 250 Vac,<br>100 °C           | VDE               |
| (Alternate)                         | ISKRA SISTEMI, d.d.                                | KNB 1560                                          | 0.47 µF,<br>275 V, 110 °C or<br>300 V, 125 °C | VDE               |
| (Alternate)                         | Liow Gu Electronics Industry Co. Ltd.              | GS-L                                              | 0.47 µF,<br>Min. 250 Vac,<br>110 °C           | ENEC              |
| (Alternate)                         | Pilkor Electronics Ltd.                            | PCX2 335M                                         | 0.47 µF,<br>Min. 250 Vac,<br>105 °C           | ENEC              |
| (Alternate)                         | Pilkor Electronics Ltd.                            | PCX2 337                                          | 0.47 µF,<br>Min. 250 Vac,<br>110 °C           | ENEC              |



| 부품명(회로기호)<br>Component(Part no.)                      | 제조사(상표명)<br>Manufacturer(Brand)         | 모델명(형식)<br>Model(Type) | 정격 또는 특성<br>Rating or Characteristics                                                | 인증마크<br>Tested by |
|-------------------------------------------------------|-----------------------------------------|------------------------|--------------------------------------------------------------------------------------|-------------------|
| (Alternate)                                           | VISHAY<br>Capacitors<br>Belgium NV      | 339                    | 0.47 $\mu$ F,<br>Min. 250 Vac,<br>110 °C                                             | ENEC              |
| (Alternate)                                           | Cheng Tung<br>Industrial Co., Ltd.      | CTX                    | 0.47 $\mu$ F,<br>Min. 250 Vac,<br>100 °C                                             | VDE               |
| (Alternate)                                           | Shiny Space<br>Enterprise<br>Co., Ltd.  | SX1                    | 0.47 $\mu$ F,<br>Min. 250 Vac,<br>100 °C                                             | VDE               |
| (Alternate)                                           | Xiamen<br>Faratronic                    | MKP62                  | 0.47 $\mu$ F,<br>Min. 250 Vac,<br>110 °C                                             | VDE               |
| (Alternate)                                           | Hua Jung                                | MKP                    | 0.47 $\mu$ F,<br>Min. 250 Vac,<br>110 °C                                             | VDE               |
| (Alternate)                                           | Carli                                   | MPX                    | 0.47 $\mu$ F,<br>Min. 250 Vac,<br>100 or 110 °C                                      | VDE               |
| (Alternate)                                           | EPCOS Electronic<br>Components S.A.     | B3292#CD series        | 0.47 $\mu$ F,<br>Min. 250 Vac,<br>110 °C                                             | ENEC              |
| (Alternate)                                           | Joey                                    | MPX                    | 0.47 $\mu$ F,<br>Min. 250 Vac,<br>105 °C                                             | VDE               |
| (Alternate)                                           | Ultra Tech Xiphi<br>Enterprise Co. Ltd. | HQX                    | 0.47 $\mu$ F,<br>Min. 250 Vac,<br>100 °C                                             | VDE               |
| Y-Capacitors<br>(C30, C31, C32,<br>C34)<br>(Y1 or Y2) | Murata Mfg.<br>Co., Ltd.                | KH, KX, KY             | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C | VDE               |
| (Alternate)                                           | TDK-EPC<br>Corporation                  | CD, CS                 | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C | VDE               |
| (Alternate)                                           | Walsin<br>Technology Corp               | AH, AC                 | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C | VDE               |

| 부품명(회로기호)<br>Component(Part no.)       | 제조사(상표명)<br>Manufacturer(Brand)                              | 모델명(형식)<br>Model(Type)          | 정격 또는 특성<br>Rating or Characteristics                                                 | 인증마크<br>Tested by |
|----------------------------------------|--------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------|-------------------|
| (Alternate)                            | Welson Industrial Co., Ltd.                                  | WD, KL                          | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C  | VDE               |
| (Alternate)                            | VISHAT                                                       | 338 6                           | C30, C31, C32:<br>Max. 4700 pF,<br>C34:<br>Max. 10000 pF,<br>Min. 250 Vac,<br>125 °C  | VDE               |
| Bridge Capacitor<br>(C33)<br>(Y1 type) | Murata Mfg. Co., Ltd.                                        | KX                              | Max. 2200 pF,<br>Min. 250 Vac,<br>125 °C                                              | VDE               |
| (Alternate)                            | TDK-EPC Corporation                                          | CD                              | Max. 2200 pF,<br>Min. 250 Vac,<br>125 °C                                              | VDE               |
| (Alternate)                            | Walsin Technology Corp                                       | AH                              | Max. 2200 pF,<br>Min. 250 Vac,<br>125 °C                                              | VDE               |
| (Alternate)                            | Welson Industrial Co., Ltd.                                  | WD                              | Max. 2200 pF,<br>Min. 250 Vac,<br>125 °C                                              | VDE               |
| Photo Coupler<br>(U3)                  | Lite-On Technology Corporation                               | LTV-817,<br>LTV-817M,<br>LTV817 | Dti=0.4 mm,<br>Int. dcr=5.2 mm,<br>Ext. dcr=7.0mm,<br>thermal cycling<br>test, 115 °C | VDE, FIMKO        |
| (Alternate)                            | Sharp Corporation Electronic Components and Devices Division | PC123                           | Dti=0.4 mm,<br>Ext. dcr=8.0 mm,<br>thermal cycle<br>test, 110 °C                      | VDE, Semko        |
| (Alternate)                            | COSMO Electronics Corporation                                | K1010                           | Dti=0.7 mm,<br>Ext. dcr=8.0 mm,<br>thermal cycle<br>test, 100 °C                      | VDE, Semko        |
| (Alternate)                            | Toshiba Corp, Semiconductor Co Discrete Semiconductor Div    | TLP785F                         | Di=0.6 mm,<br>Int. dcr=5.0 mm,<br>Ext. dcr=8 mm,<br>thermal cycling<br>test, 115 °C   | VDE               |
| (Alternate)                            | Toshiba Corp, Semiconductor Co Discrete Semiconductor Div    | TLP785                          | Di=0.6 mm,<br>Int. dcr=5.0 mm,<br>Ext. dcr=6.5 mm,<br>thermal cycling<br>test, 115 °C | VDE               |

| 부품명(회로기호)<br>Component(Part no.)              | 제조사(상표명)<br>Manufacturer(Brand)                                       | 모델명(형식)<br>Model(Type)                                                                                                                                        | 정격 또는 특성<br>Rating or Characteristics                                                 | 인증마크<br>Tested by        |
|-----------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------|
| (Alternate)                                   | Toshiba Corp,<br>Semiconductor<br>Co Discrete<br>Semiconductor<br>Div | TLP781F                                                                                                                                                       | Di=0.6 mm,<br>Int. dcr=5.0 mm,<br>Ext. dcr=8 mm,<br>thermal cycling<br>test, 115 °C   | VDE                      |
| (Alternate)                                   | Toshiba Corp,<br>Semiconductor<br>Co Discrete<br>Semiconductor<br>Div | TLP781                                                                                                                                                        | Di=0.6 mm,<br>Int. dcr=5.0 mm,<br>Ext. dcr=6.5 mm,<br>thermal cycling<br>test, 115 °C | VDE                      |
| Transformer<br>(T1)<br>(for model<br>GST60Ax) | Long Sail<br>Electronic<br>Co., Ltd.                                  | TF-1740A<br>(for x=09),<br>TF-1741A<br>(for x=12),<br>TF-1742A<br>(for x=15),<br>TF-1743A<br>(for x=18),<br>TF-1744A<br>(for x=24),<br>TF-1745A<br>(for x=48) | Class B                                                                               | Tested with<br>appliance |
| (Alternate)                                   | Jet Signal<br>Industries<br>Co., Ltd.                                 | TF-1740A<br>(for x=09),<br>TF-1741A<br>(for x=12),<br>TF-1742A<br>(for x=15),<br>TF-1743A<br>(for x=18),<br>TF-1744A<br>(for x=24),<br>TF-1745A<br>(for x=48) | Class B                                                                               | Tested with<br>appliance |
| (Alternate)                                   | Mean Well                                                             | TF-1740A<br>(for x=09),<br>TF-1741A<br>(for x=12),<br>TF-1742A<br>(for x=15),<br>TF-1743A<br>(for x=18),<br>TF-1744A<br>(for x=24),<br>TF-1745A<br>(for x=48) | Class B                                                                               | Tested with<br>appliance |



| 부품명(회로기호)<br>Component(Part no.) | 제조사(상표명)<br>Manufacturer(Brand)     | 모델명(형식)<br>Model(Type) | 정격 또는 특성<br>Rating or Characteristics                                                            | 인증마크<br>Tested by        |
|----------------------------------|-------------------------------------|------------------------|--------------------------------------------------------------------------------------------------|--------------------------|
| Discharging IC<br>(U1)           | NXP<br>Semiconductor<br>Taiwan Ltd. | TEA18362T              | 100-240 Vac,<br>47-63 Hz.<br>X-Caps.:<br>0.22- 2.2 $\mu$ F.<br>Resistors:<br>120- 200 k $\Omega$ | DEMKO                    |
| PCB                              | Interchangeable                     | Interchangeable        | V-1 or better,<br>min. 130 °C                                                                    | UL                       |
| Bleeder Resistors<br>(R12, R15)  | Interchangeable                     | Interchangeable        | Total 120-200k $\Omega$ ,<br>max. 1/4 W                                                          | Tested with<br>appliance |

☐ 유의사항 (Attention) :

1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장검사 시 확인 관리 하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등재를 원하시는 경우는 안전인증기관에 인증변경신청을 하여야 합니다.

*As the "Critical components" are parts in directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying multiful listing or changing the items above, the certification revision shall be applied.*

2. 인증변경신청 없이 임의로 변경하는 경우는, 전기용품안전관리법 제 8 조제 1 항의 규정에 의한 안전인증취소 사유가 됨을 유의하시기 바랍니다.

*The Safety Certification will be cancelled under the Safety Control Law for Electrical Appliances, Paragraph 1 of Article 8 if the contents of the Certification is altered without our authorization.*

□ 첨부 2 : 기본모델 · 파생모델의 내용  
General description of Certified Products

| 파생모델명<br>Derivative model                                                                                                                                                                                                                                                                                           | 기본모델과의 차이점<br>Differences between the basic and derivative model(s)                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| GST60A09                                                                                                                                                                                                                                                                                                            | Same as basic model except for transformer type, output rating and model designation.<br>Output rating: 9 Vdc, 6.0 A, 54 W MAX.   |
| GST60A12                                                                                                                                                                                                                                                                                                            | Same as basic model except for transformer type, output rating and model designation.<br>Output rating: 12 Vdc, 5.0 A, 60 W MAX.  |
| GST60A15                                                                                                                                                                                                                                                                                                            | Same as basic model except for transformer type, output rating and model designation.<br>Output rating: 15 Vdc, 4.0 A, 60 W MAX.  |
| GST60A18                                                                                                                                                                                                                                                                                                            | Same as basic model except for transformer type, output rating and model designation.<br>Output rating: 18 Vdc, 3.33 A, 60 W MAX. |
| GST60A24                                                                                                                                                                                                                                                                                                            | Same as basic model except for transformer type, output rating and model designation.<br>Output rating: 24 Vdc, 2.5 A, 60 W MAX.  |
| 제품특기사항 및 시험조건<br>Remarks & Test conditions                                                                                                                                                                                                                                                                          |                                                                                                                                   |
| <p>1. Test Report Ref. No. : 16-029442-01 (2016.10.11)</p> <p>2. Product Description</p> <ul style="list-style-type: none"> <li>- Measured power consumption: 65 W</li> <li>- Class of equipment: Class I</li> <li>- Protection against ingress of water: IPX0</li> <li>- Mass of equipment (kg): 0.3 kg</li> </ul> |                                                                                                                                   |
| <p>□ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다.<br/>시험담당자 : 인증산업본부 정보조명평가센터 유우정 / 02-860-1406</p> <p>□ If you have any question on product testing, please contact the person below :<br/>Job holder : Certification Business Division, IT &amp; Lighting Testing Center, WOOJUNG YOO / +82 2 860-1406</p>   |                                                                                                                                   |

FP511-09-00

☐ 첨부 3 : 전기용품안전인증의 변경 현황  
Status of Certificate Revisions

| 변경발급 내용<br>Contents of Certificate Revisions |
|----------------------------------------------|
| Not applicable                               |

FP511-11-00



☐ 첨부 : 제품사진  
Photographs

