

접 수 번 호 : 23-011998-01-1
(Receipt No.)



안전인증서

Safety Certificate

안전인증번호 : SU10509-16016B
(Certificate No.)

제조업자/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 : GST40A48
(Basic Model)

파생모델명 : See the attachment 2
(Series Model)

정격/안전기준상의 모델구분 : 100-240 Vac, 50/60 Hz, 1.0 A, Class I
(Rating) (Output: 48 Vdc, 0.84 A, 40 W MAX.)

시험기준 : KC62368-1(2021-08)
(Standard)

본 인증서는 제조국명 : 중국
제조업자명 : 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 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.

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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) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 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 TU-301-AP TU-301-S 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) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternate)	VISHAY Capacitors Belgium NV	339	Min. 250 Vac, 110 °C	ENEC
(Alternate)	Cheng Tung Industrial Co., Ltd.	CTX	Min. 250 Vac, 110 °C	VDE
(Alternate)	Shiny Space Enterprise Co., Ltd.	SX1	Min. 250 Vac, 100 °C	ENEC
(Alternate)	Xiamen Faratronic	MKP62	Min. 250 Vac, 110 °C	VDE
(Alternate)	Hua Jung	MKP	Min. 250 Vac, 110 °C	ENEC
(Alternate)	Carli	MPX	Min. 250 Vac, 110 °C	VDE
(Alternate)	EPCOS Electronic Components S.A.	B3292#CD series	Min. 250 Vac, 110 °C	ENEC
(Alternate)	Joey	MPX	Min. 250 Vac, 105 °C	VDE
(Alternate)	Ultra Tech Xiphi Enterprise Co. Ltd.	HQX	Min. 250 Vac, 100 °C	VDE
Choke (LF2) (Optional)	Mean Well	TR-733	Min. 130 °C	
Y-Capacitors (C30, C31, C32, C34) - C30= C31= C32= max. 4700 pF (optional) - C34= max. 10000 pF (optional or bypassed)	Murata Mfg. Co., Ltd.	KX	Min. 250 Vac, 125 °C	VDE
(Alternate)	TDK-EPC Corporation	CD	Min. 250 Vac, 125 °C	VDE
(Alternate)	Walsin Technology Corp	AH AC(Y2 type)	Min. 250 Vac, 125 °C	VDE
(Alternate)	Welson Industrial Co., Ltd.	WD	Min. 250 Vac, 125 °C	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Bridge Capacitor (C33) (Optional) (Max. 2200 pF) (Y1 type)	Murata Mfg. Co., Ltd.	KX	Min. 250 Vac, 125 °C	VDE
(Alternate)	TDK	CD	Min. 250 Vac, 125 °C	VDE
(Alternate)	Walsin Technology Corp	AH	Min. 250 Vac, 125 °C	VDE
(Alternate)	Welson Industrial Co., Ltd.	WD	Min. 250 Vac, 125 °C	VDE
Photo Coupler (U3)	Lite-On Technology Corporation	LTV-817, 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) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (for Models GST40Ax)	Long Sail Electronic Co., Ltd.	TF-1782A (for x=05), TF-1783A (for x=07), TF-1784A (for x=09), TF-1785A (for x=12), TF-1786A (for x=15), TF-1787A (for x=18), TF-1788A (for x=24), TF-1789A (for x=48)	Class B	Accepted by TÜV Rheinland
(Alternate)	Jet Signal Industries Co., Ltd.	TF-1782A (for x=05), TF-1783A (for x=07), TF-1784A (for x=09), TF-1785A (for x=12), TF-1786A (for x=15), TF-1787A (for x=18), TF-1788A (for x=24), TF-1789A (for x=48)	Class B	Accepted by TÜV Rheinland
(Alternate)	Mean Well	TF-1782A (for x=05), TF-1783A (for x=07), TF-1784A (for x=09), TF-1785A (for x=12), TF-1786A (for x=15), TF-1787A (for x=18), TF-1788A (for x=24), TF-1789A (for x=48)	Class B	Accepted by TÜV Rheinland

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
PCB	SHUNDE JUNDA ELECTRONIC CO LTD	JD-D	V-1 or better, min. 130 °C	UL
(Alternate)	Interchangeable	Interchangeable	V-1 or better, min. 130 °C	UL
Bleeder Resistors (R12, R15 for layout type A) (R15 for layout type B and C)	Walsin Technology Corporation	WF Series	Total 120-200 kΩ , min. 1/4 W	UL
(Alternate)	Tzai Yuan Enterprise Co.,Ltd	SMD 1206*****	Total 120-200 kΩ , min. 1/4 W	UL
(Alternate)	Ever Ohms Technology Co Ltd	HR Series	Total 120-200 kΩ , min. 1/4 W	UL
Bleeder Resistors (R12, R15 for layout type D)	Walsin Technology Corporation	WF Series	Total 120-200 kΩ , min. 1/4 W	UL
(Alternate)	Tzai Yuan Enterprise Co.,Ltd	SMD 1206*****	Total 120-200 kΩ , min. 1/4 W	UL
(Alternate)	Ever Ohms Technology Co Ltd	HR Series	Total 120-200 kΩ , 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 21 조제 1 항 또는 제 38 조제 1 항 규정에 의한 안전인증 취소 혹은 안전확인신고 효력상실 사유가 됨을 유의하시기 바랍니다.

The Safety Certification will be cancelled under the Article 21(1), 38(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 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
GST40A05	Same as basic model except for transformer type, output rating and model designation. Output rating: 5 Vdc, 5.0 A, 25 W MAX.
GST40A07	Same as basic model except for transformer type, output rating and model designation. Output rating: 7.5 Vdc, 5.34 A, 40 W MAX.
GST40A09	Same as basic model except for transformer type, output rating and model designation. Output rating: 9 Vdc, 4.45 A, 40 W MAX.
GST40A12	Same as basic model except for transformer type, output rating and model designation. Output rating: 12 Vdc, 3.34 A, 40 W MAX.
GST40A15	Same as basic model except for transformer type, output rating and model designation. Output rating: 15 Vdc, 2.67 A, 40 W MAX.
GST40A18	Same as basic model except for transformer type, output rating and model designation. Output rating: 18 Vdc, 2.22 A, 40 W MAX.
GST40A24	Same as basic model except for transformer type, output rating and model designation. Output rating: 24 Vdc, 1.67 A, 40 W MAX.
제품특기사항 및 시험조건 Remarks & Test conditions	
<p>1. Test Report Ref. No. : 16-032721-01 (2016.10.11)</p> <p>2. Product Description</p> <ul style="list-style-type: none"> - Measured power consumption: 43 W - Class of equipment: Class I - Protection against ingress of water: IPX0 - Mass of equipment (kg): 0.3 kg 	
<p>□ 본 제품의 검토내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 검토 담당자 : 고객지원본부 인증융합평가센터 장 재용 / 02-8601-137</p> <p>□ <i>If you have any question on product review, please contact the person below :</i> 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 Contents of Certificate Revisions
<p>1st Rev.) Change of manufacturer president and address (22-081377-29-1 : 2023.02.21.)</p> <ul style="list-style-type: none"> - 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 <p>2nd Rev.) Update KC standard and component list (23-011998-01-1 : 2023.03.16.)</p> <ul style="list-style-type: none"> - KC standard update : K 60950-1 → KC 62368-1 - Update component list - CB Certificate Ref. No.: JPTUV-132693-M1 (TÜV Rheinland Japan Ltd.) - CB Test Report No.: CN22RVZ6 002 (TÜV Rheinland Shanghai Co., Ltd.)

FP511-06

접수번호 : 22-081377-29-1
(Receipt No.)



안전인증서

Safety Certificate

안전인증번호 : SU10509-16016A
(Certificate No.)

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

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

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

기본모델명 : GST40A48
(Basic Model)

파생모델명 : See the attachment 2
(Series Model)

정격/안전기준상의 모델구분 : 100-240 Vac, 50/60 Hz, 1.0 A, Class I
(Rating) (Output: 48 Vdc, 0.84 A, 40 W MAX.)

시험기준 : K60950-1(2011-12)
(Standard)

본 인증서는 제조국명 : 중국
제조업자명 : 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



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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 : 안전관리부품 및 재질목록
List of Critical Components

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Plastic Enclosure	Sabic Innovative Plastics	945, 940	V-0, 120 °C, min. 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, TU-301-AP, TU-301-S, 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) (X1 or X2 type)	Kemet Electronics Italia Srl (Arcotronics SPA)	R.46	0.82 µF, Min. 250 Vac, 110/125 °C	ENEC
(Alternate)	Kemet Electronics Italia Srl (Arcotronics SPA)	R.49	0.82 µF, Min. 250 Vac, 110 °C	ENEC
(Alternate)	EPCOS Electronic Components S.A.	B3292#	0.82 µF, Min. 250 Vac, 105 °C	VDE
(Alternate)	ISKRA SISTEMI, d.d.	KNB 1530	0.82 µF, Min. 250 Vac, 100 °C	VDE
(Alternate)	ISKRA SISTEMI, d.d.	KNB 1560	0.82 µF, 275 V, 110 °C or 300 V, 125 °C	VDE
(Alternate)	Liow Gu Electronics Industry Co. Ltd.	GS-L	0.82 µF, Min. 250 Vac, 110 °C	ENEC
(Alternate)	Pilkor Electronics Ltd.	PCX2 335M	0.82 µF, Min. 250 Vac, 105 °C	ENEC
(Alternate)	Pilkor Electronics Ltd.	PCX2 337	0.82 µF, Min. 250 Vac, 110 °C	ENEC

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternate)	VISHAY Capacitors Belgium NV	339	0.82 μ F, Min. 250 Vac, 110 $^{\circ}$ C	ENEC
(Alternate)	Cheng Tung Industrial Co., Ltd.	CTX	0.82 μ F, Min. 250 Vac, 100 $^{\circ}$ C	VDE
(Alternate)	Shiny Space Enterprise Co., Ltd.	SX1	0.82 μ F, Min. 250 Vac, 100 $^{\circ}$ C	VDE
(Alternate)	Xiamen Faratronic	MKP62	0.82 μ F, Min. 250 Vac, 110 $^{\circ}$ C	VDE
(Alternate)	Hua Jung	MKP	0.82 μ F, Min. 250 Vac, 110 $^{\circ}$ C	VDE
(Alternate)	Carli	MPX	0.82 μ F, Min. 250 Vac, 100 or 110 $^{\circ}$ C	VDE
(Alternate)	EPCOS Electronic Components S.A.	B3292#CD series	0.82 μ F, Min. 250 Vac, 110 $^{\circ}$ C	ENEC
(Alternate)	Joey	MPX	0.82 μ F, Min. 250 Vac, 105 $^{\circ}$ C	VDE
(Alternate)	Ultra Tech Xiphi Enterprise Co. Ltd.	HQX	0.82 μ F, Min. 250 Vac, 100 $^{\circ}$ C	VDE
Y-Capacitors (C30, C31, C32, C34) (Y1 or Y2)	Murata Mfg. Co., Ltd.	KH, KX, KY	C30, C31, C32: Max. 4700 pF, C34: Max. 10000 pF, Min. 250 Vac, 125 $^{\circ}$ C	VDE
(Alternate)	TDK-EPC Corporation	CD, CS	C30, C31, C32: Max. 4700 pF, C34: Max. 10000 pF, Min. 250 Vac, 125 $^{\circ}$ C	VDE
(Alternate)	Walsin Technology Corp	AH, AC	C30, C31, C32: Max. 4700 pF, C34: Max. 10000 pF, Min. 250 Vac, 125 $^{\circ}$ C	VDE

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

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternate)	Toshiba Corp, Semiconductor Co Discrete Semiconductor Div	TLP781F	Di=0.6 mm, Int. dcr=5.0 mm, Ext. dcr=8 mm, thermal cycling test, 115 °C	VDE
(Alternate)	Toshiba Corp, Semiconductor Co Discrete Semiconductor Div	TLP781	Di=0.6 mm, Int. dcr=5.0 mm, Ext. dcr=6.5 mm, thermal cycling test, 115 °C	VDE
Transformer (T1) (for model GST40A05)	Long Sail Electronic Co., Ltd.	TF-1782A	Class B	Tested with appliance
(Alternate)	Jet Signal Industries Co., Ltd.	TF-1782A	Class B	Tested with appliance
(Alternate)	Mean Well	TF-1782A	Class B	Tested with appliance
Transformer (T1) (for model GST40A07)	Long Sail Electronic Co., Ltd.	TF-1783A	Class B	Tested with appliance
(Alternate)	Jet Signal Industries Co., Ltd.	TF-1783A	Class B	Tested with appliance
(Alternate)	Mean Well	TF-1783A	Class B	Tested with appliance
Transformer (T1) (for model GST40A09)	Long Sail Electronic Co., Ltd.	TF-1784A	Class B	Tested with appliance
(Alternate)	Jet Signal Industries Co., Ltd.	TF-1784A	Class B	Tested with appliance
(Alternate)	Mean Well	TF-1784A	Class B	Tested with appliance
Transformer (T1) (for model GST40A12)	Long Sail Electronic Co., Ltd.	TF-1785A	Class B	Tested with appliance
(Alternate)	Jet Signal Industries Co., Ltd.	TF-1785A	Class B	Tested with appliance
(Alternate)	Mean Well	TF-1785A	Class B	Tested with appliance

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (for model GST40A15)	Long Sail Electronic Co., Ltd.	TF-1786A	Class B	Tested with appliance
(Alternate)	Jet Signal Industries Co., Ltd.	TF-1786A	Class B	Tested with appliance
(Alternate)	Mean Well	TF-1786A	Class B	Tested with appliance
Transformer (T1) (for model GST40A18)	Long Sail Electronic Co., Ltd.	TF-1787A	Class B	Tested with appliance
(Alternate)	Jet Signal Industries Co., Ltd.	TF-1787A	Class B	Tested with appliance
(Alternate)	Mean Well	TF-1787A	Class B	Tested with appliance
Transformer (T1) (for model GST40A24)	Long Sail Electronic Co., Ltd.	TF-1788A	Class B	Tested with appliance
(Alternate)	Jet Signal Industries Co., Ltd.	TF-1788A	Class B	Tested with appliance
(Alternate)	Mean Well	TF-1788A	Class B	Tested with appliance
Transformer (T1) (for model GST40A48)	Long Sail Electronic Co., Ltd.	TF-1789A	Class B	Tested with appliance
(Alternate)	Jet Signal Industries Co., Ltd.	TF-1789A	Class B	Tested with appliance
(Alternate)	Mean Well	TF-1789A	Class B	Tested with appliance
Discharging IC (U1)	NXP Semiconductor Taiwan Ltd.	TEA18362T	100-240 Vac, 47-63 Hz. X-Caps.: 0.22- 2.2 μ F. Resistors: 120- 200 k Ω	DEMKO
PCB	Interchangeable	Interchangeable	V-1 or better, min. 130 °C	UL
Bleeder Resistors (R12, R15)	Interchangeable	Interchangeable	Total 120-200 k Ω , max. 1/4 W	Tested with appliance

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
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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.

FP511-10-00

□ 첨부 2 : 기본모델 · 파생모델의 내용

General description of Certified Products

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
GST40A05	Same as basic model except for transformer type, output rating and model designation. Output rating: 5 Vdc, 5.0 A, 25 W MAX.
GST40A07	Same as basic model except for transformer type, output rating and model designation. Output rating: 7.5 Vdc, 5.34 A, 40 W MAX.
GST40A09	Same as basic model except for transformer type, output rating and model designation. Output rating: 9 Vdc, 4.45 A, 40 W MAX.
GST40A12	Same as basic model except for transformer type, output rating and model designation. Output rating: 12 Vdc, 3.34 A, 40 W MAX.
GST40A15	Same as basic model except for transformer type, output rating and model designation. Output rating: 15 Vdc, 2.67 A, 40 W MAX.
GST40A18	Same as basic model except for transformer type, output rating and model designation. Output rating: 18 Vdc, 2.22 A, 40 W MAX.
GST40A24	Same as basic model except for transformer type, output rating and model designation. Output rating: 24 Vdc, 1.67 A, 40 W MAX.

제품특기사항 및 시험조건
Remarks & Test conditions

1. Test Report Ref. No. : 16-032721-01 (2016.10.11)

2. Product Description

- Measured power consumption: 43 W
- Class of equipment: Class I
- Protection against ingress of water: IPX0
- Mass of equipment (kg): 0.3 kg

□ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다.
시험 담당자 / 연락처 : 디지털산업본부 전기전자기술센터 박 일우 / 02-860-1436
□ If you have any question on product testing, please contact the person below :
Job holder : S.M.A.R.T. Industry Division, Electrical and Electronic Technology Center, Park Il-Woo / +82 2 860-1436

□ 첨부 3 : 전기용품안전인증의 변경 현황
Status of Certificate Revisions

변경발급 내용 Contents of Certificate Revisions
1 st Rev.) Change of manufacturer president and address (22-081377-29-1 : 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

FP511-11-00

접수 번호 : 16-032721-01
(Receipt No.)



전기용품안전인증서

Electrical Appliances Safety Certificate

안전인증번호 (Certificate No.)	: SU10509-16016
제조사명 (Manufacturer)	: SuZhou MEAN WELL Technology Co., Ltd.
대표자명 (President)	: Mr. Jerry Lin
제조공장의 주소 (Factory Address)	: No. 77, Jian-Min Road, Dong-Qiao, Pan-Yang Ind. Park, Huang-Dai Town, Xiang-Cheng District, Suzhou, Jiangsu 215152, P.R. China
제품명 (Product)	: 직류전원장치(AC/DC Switching Adaptor) (AC/DC adapter)
기본모델명 (Basic Model)	: GST40A48
정격 (Rating)	: 100-240 Vac, 50/60 Hz, 1.0 A, Class I (Output: 48 Vdc, 0.84 A, 40 W MAX.)
파생모델명 (Series Model)	: See the attachment 2
적용기준 (Standard)	: K 60950-1 (2011-12)

「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.

- 첨부 :
(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) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Plastic Enclosure	Sabic Innovative Plastics	945, 940	V-0, 120 °C, min. 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, TU-301-AP, TU-301-S, 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) (X1 or X2 type)	Kemet Electronics Italia Srl (Arcotronics SPA)	R.46	0.82 µF, Min. 250 Vac, 110/125 °C	ENEC
(Alternate)	Kemet Electronics Italia Srl (Arcotronics SPA)	R.49	0.82 µF, Min. 250 Vac, 110 °C	ENEC
(Alternate)	EPCOS Electronic Components S.A.	B3292#	0.82 µF, Min. 250 Vac, 105 °C	VDE
(Alternate)	ISKRA SISTEMI, d.d.	KNB 1530	0.82 µF, Min. 250 Vac, 100 °C	VDE
(Alternate)	ISKRA SISTEMI, d.d.	KNB 1560	0.82 µF, 275 V, 110 °C or 300 V, 125 °C	VDE
(Alternate)	Liow Gu Electronics Industry Co. Ltd.	GS-L	0.82 µF, Min. 250 Vac, 110 °C	ENEC
(Alternate)	Pilkor Electronics Ltd.	PCX2 335M	0.82 µF, Min. 250 Vac, 105 °C	ENEC
(Alternate)	Pilkor Electronics Ltd.	PCX2 337	0.82 µF, Min. 250 Vac, 110 °C	ENEC

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternate)	VISHAY Capacitors Belgium NV	339	0.82 μ F, Min. 250 Vac, 110 $^{\circ}$ C	ENEC
(Alternate)	Cheng Tung Industrial Co., Ltd.	CTX	0.82 μ F, Min. 250 Vac, 100 $^{\circ}$ C	VDE
(Alternate)	Shiny Space Enterprise Co., Ltd.	SX1	0.82 μ F, Min. 250 Vac, 100 $^{\circ}$ C	VDE
(Alternate)	Xiamen Faratronic	MKP62	0.82 μ F, Min. 250 Vac, 110 $^{\circ}$ C	VDE
(Alternate)	Hua Jung	MKP	0.82 μ F, Min. 250 Vac, 110 $^{\circ}$ C	VDE
(Alternate)	Carli	MPX	0.82 μ F, Min. 250 Vac, 100 or 110 $^{\circ}$ C	VDE
(Alternate)	EPCOS Electronic Components S.A.	B3292#CD series	0.82 μ F, Min. 250 Vac, 110 $^{\circ}$ C	ENEC
(Alternate)	Joey	MPX	0.82 μ F, Min. 250 Vac, 105 $^{\circ}$ C	VDE
(Alternate)	Ultra Tech Xiphi Enterprise Co. Ltd.	HQX	0.82 μ F, Min. 250 Vac, 100 $^{\circ}$ C	VDE
Y-Capacitors (C30, C31, C32, C34) (Y1 or Y2)	Murata Mfg. Co., Ltd.	KH, KX, KY	C30, C31, C32: Max. 4700 pF, C34: Max. 10000 pF, Min. 250 Vac, 125 $^{\circ}$ C	VDE
(Alternate)	TDK-EPC Corporation	CD, CS	C30, C31, C32: Max. 4700 pF, C34: Max. 10000 pF, Min. 250 Vac, 125 $^{\circ}$ C	VDE
(Alternate)	Walsin Technology Corp	AH, AC	C30, C31, C32: Max. 4700 pF, C34: Max. 10000 pF, Min. 250 Vac, 125 $^{\circ}$ C	VDE

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

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternate)	Toshiba Corp, Semiconductor Co Discrete Semiconductor Div	TLP781F	Di=0.6 mm, Int. dcr=5.0 mm, Ext. dcr=8 mm, thermal cycling test, 115 °C	VDE
(Alternate)	Toshiba Corp, Semiconductor Co Discrete Semiconductor Div	TLP781	Di=0.6 mm, Int. dcr=5.0 mm, Ext. dcr=6.5 mm, thermal cycling test, 115 °C	VDE
Transformer (T1) (for model GST40A05)	Long Sail Electronic Co., Ltd.	TF-1782A	Class B	Tested with appliance
(Alternate)	Jet Signal Industries Co., Ltd.	TF-1782A	Class B	Tested with appliance
(Alternate)	Mean Well	TF-1782A	Class B	Tested with appliance
Transformer (T1) (for model GST40A07)	Long Sail Electronic Co., Ltd.	TF-1783A	Class B	Tested with appliance
(Alternate)	Jet Signal Industries Co., Ltd.	TF-1783A	Class B	Tested with appliance
(Alternate)	Mean Well	TF-1783A	Class B	Tested with appliance
Transformer (T1) (for model GST40A09)	Long Sail Electronic Co., Ltd.	TF-1784A	Class B	Tested with appliance
(Alternate)	Jet Signal Industries Co., Ltd.	TF-1784A	Class B	Tested with appliance
(Alternate)	Mean Well	TF-1784A	Class B	Tested with appliance
Transformer (T1) (for model GST40A12)	Long Sail Electronic Co., Ltd.	TF-1785A	Class B	Tested with appliance
(Alternate)	Jet Signal Industries Co., Ltd.	TF-1785A	Class B	Tested with appliance
(Alternate)	Mean Well	TF-1785A	Class B	Tested with appliance

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (for model GST40A15)	Long Sail Electronic Co., Ltd.	TF-1786A	Class B	Tested with appliance
(Alternate)	Jet Signal Industries Co., Ltd.	TF-1786A	Class B	Tested with appliance
(Alternate)	Mean Well	TF-1786A	Class B	Tested with appliance
Transformer (T1) (for model GST40A18)	Long Sail Electronic Co., Ltd.	TF-1787A	Class B	Tested with appliance
(Alternate)	Jet Signal Industries Co., Ltd.	TF-1787A	Class B	Tested with appliance
(Alternate)	Mean Well	TF-1787A	Class B	Tested with appliance
Transformer (T1) (for model GST40A24)	Long Sail Electronic Co., Ltd.	TF-1788A	Class B	Tested with appliance
(Alternate)	Jet Signal Industries Co., Ltd.	TF-1788A	Class B	Tested with appliance
(Alternate)	Mean Well	TF-1788A	Class B	Tested with appliance
Transformer (T1) (for model GST40A48)	Long Sail Electronic Co., Ltd.	TF-1789A	Class B	Tested with appliance
(Alternate)	Jet Signal Industries Co., Ltd.	TF-1789A	Class B	Tested with appliance
(Alternate)	Mean Well	TF-1789A	Class B	Tested with appliance
Discharging IC (U1)	NXP Semiconductor Taiwan Ltd.	TEA18362T	100-240 Vac, 47-63 Hz. X-Caps.: 0.22- 2.2 μ F. Resistors: 120- 200 k Ω	DEMKO
PCB	Interchangeable	Interchangeable	V-1 or better, min. 130 °C	UL
Bleeder Resistors (R12, R15)	Interchangeable	Interchangeable	Total 120-200 k Ω , max. 1/4 W	Tested with appliance

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
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FP511-10-00

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

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
GST40A05	Same as basic model except for transformer type, output rating and model designation. Output rating: 5 Vdc, 5.0 A, 25 W MAX.
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GST40A09	Same as basic model except for transformer type, output rating and model designation. Output rating: 9 Vdc, 4.45 A, 40 W MAX.
GST40A12	Same as basic model except for transformer type, output rating and model designation. Output rating: 12 Vdc, 3.34 A, 40 W MAX.
GST40A15	Same as basic model except for transformer type, output rating and model designation. Output rating: 15 Vdc, 2.67 A, 40 W MAX.
GST40A18	Same as basic model except for transformer type, output rating and model designation. Output rating: 18 Vdc, 2.22 A, 40 W MAX.
GST40A24	Same as basic model except for transformer type, output rating and model designation. Output rating: 24 Vdc, 1.67 A, 40 W MAX.
제품특기사항 및 시험조건 Remarks & Test conditions	
<p>1. Test Report Ref. No. : 16-032721-01 (2016.10.11)</p> <p>2. Product Description</p> <ul style="list-style-type: none"> - Measured power consumption: 43 W - Class of equipment: Class I - Protection against ingress of water: IPX0 - Mass of equipment (kg): 0.3 kg 	
<p>□ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 시험담당자 : 디지털산업본부 정보조명평가센터 박 일 우 / 02-860-1436</p> <p>□ <i>If you have any question on product testing, please contact the person below :</i> Job holder : S.M.A.R.T. Industry Division, IT & 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 Contents of Certificate Revisions
Not applicable

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