



# Test Report: HLG-320H-C2800

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320W Single Output LED Power Supply

## ■ DESIGN VERIFY TEST

Output Function Test

Input Function Test

Protection Function Test

Component Stress Test

## ■ SAFETY & E.M.C. TEST

Safety Test

E.M.C. Test

## ■ RELIABILITY TEST

ENVIRONMENT TEST

## DESIGN VERIFY TEST

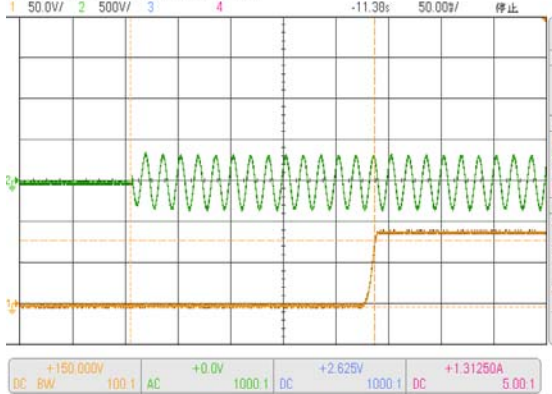
### OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	CURRENT TOLERANCE	±5%	I/P: 230 VAC I/P:115VAC O/P:FULL LOAD Ta:25°C	2.8101 A /230VAC@CV MAX-1V 2.8144A /230VAC@CV MIN 2.8106 A/115VAC@CV MAX-1V 2.8144A/115VAC@CV MIN 0.16%
2	CONSTANT CURRENT REGION	CH1:57 V~ 114V	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	57V~ 114V /230VAC
3	OPEN CIRCUIT VOLTAGE (max.)	118V	I/P: 230 VAC O/P:NO LOAD Ta:25°C	115V
4	CURRENT ADJ. RANGE	CH1:1400mA~ 2800mA	I/P: 230 VAC I/P:115VAC O/P:CV MIN & CV MAX-1V Ta:25°C	1.1094A~3.0129A/230VAC@CV MAX-1V 1.1154A~ 3.2345A /230VAC@CV MIN 1.1093A~3.1381A/115VAC@CV MAX-1V 1.1155A~3.2364A/115VAC@CV MIN
5	CURRENT RIPPLE	5.0% max. @rated current	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	1.06%
6	SET UP TIME (Max)	230VAC/ 500 ms (Max) 115VAC/ 1000ms (Max)	I/P: 230 VAC I/P: 115 VAC O/P:FULL LOAD Ta:25°C	230VAC/ 232 ms 115 VAC/ 275ms

INPUT=230VAC/50HZ @ FULL LOAD

CH1 : Output Voltage CH2 : AC Input Voltage

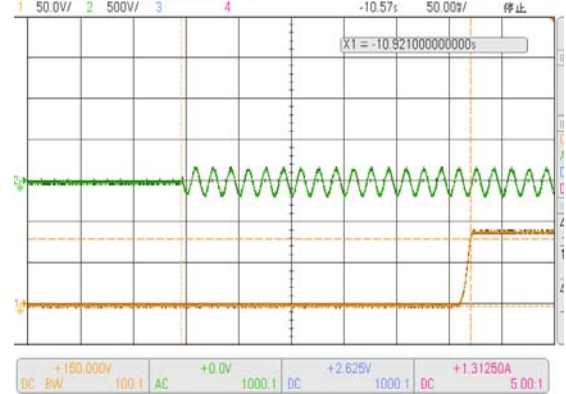
DSO-X:3014A, M152161491: Tue Mar 22 17:05:34 2016



INPUT=115VAC/60HZ @ FULL LOAD

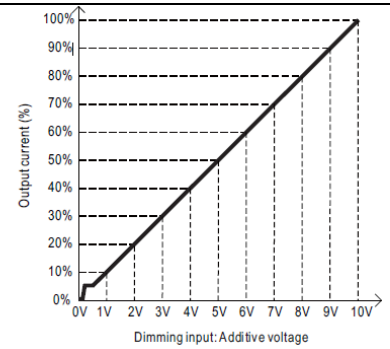
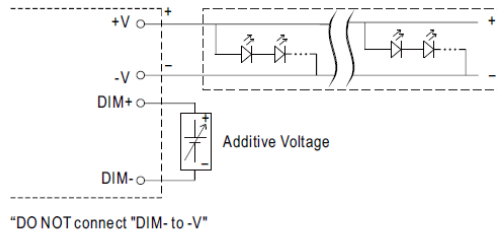
CH1 : Output Voltage CH2 : AC Input Voltage

DSO-X:3014A, M152161491: Tue Mar 22 17:07:36 2016

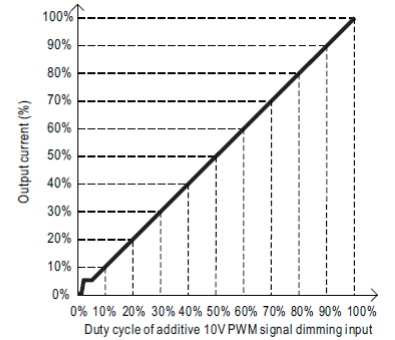
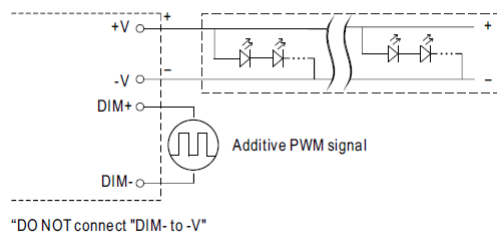


7	DIMMING OPERATION (for B-Type)	<p>※3 in 1 dimming function (for B-Type)</p> <p>* Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 10VDC, or 10V PWM signal or resistance.</p> <p>*Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.</p> <p>*Dimming source current from power supply: 100<math>\mu</math> A (typ.)</p>
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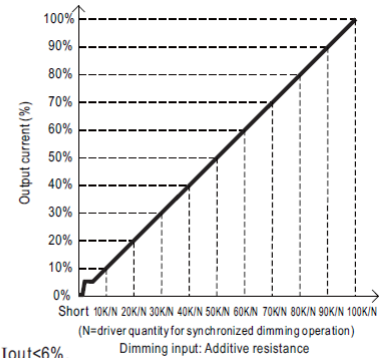
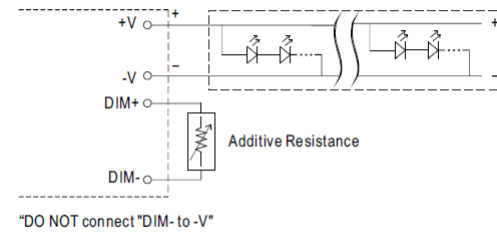
◎ Applying additive 0 ~ 10VDC



◎ Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):



◎ Applying additive resistance:



Note : 1. Min. dimming level is about 6% and the output current is not defined when  $0 < I_{out} < 6\%$ .  
 2. The output current could drop down to 0% when dimming input is about  $0k\Omega$  or 0Vdc, or 10V PWM signal with 0% duty cycle.

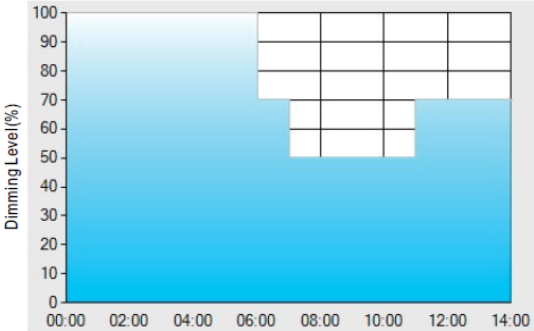
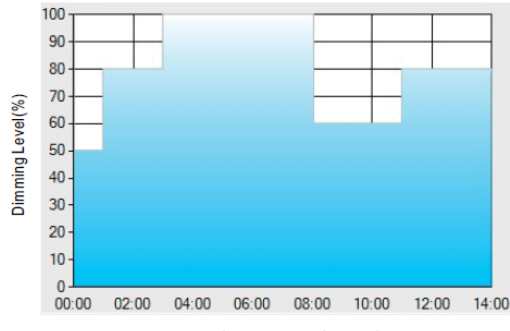
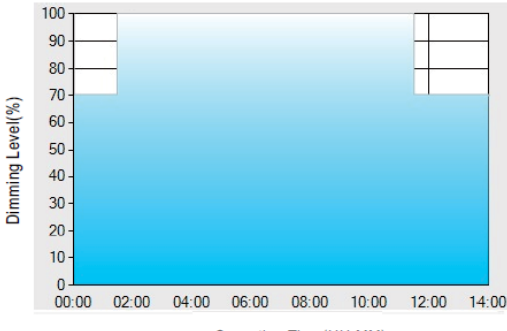
I/P : 230VAC  
 O/P : DIMMING TEST  
 TA : 25°C

R	SHORT	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	OPEN
O/P CURRENT	0.00000A	0.272A	0.558A	0.832A	1.110A	1.390A	1.660A	1.930A	2.200A	2.520A	2.760A	2.820A
%	0.00%	9.71%	19.93%	29.71%	39.64%	49.64%	59.29%	68.93%	78.57%	90.00%	98.57%	100.71%
V	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
O/P CURRENT	0.00000A	0.285A	0.572A	0.852A	1.140A	1.440A	1.680A	1.970A	2.260A	2.530A	2.750A	2.810A
%	0.00%	10.18%	20.43%	30.43%	40.71%	51.43%	60.00%	70.36%	80.71%	90.36%	98.21%	100.36%
PWM (100HZ)	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
O/P CURRENT	0.00000A	0.296A	0.592A	0.884A	1.160A	1.420A	1.710A	1.970A	2.230A	2.480A	2.740A	2.810A
%	0.00%	10.57%	21.14%	31.57%	41.43%	50.71%	61.07%	70.36%	79.64%	88.57%	97.86%	100.36%

TEST RESULT : OK

8 DIMMING OPERATION (primary side; for DA-Type)

※**DALI Interface**  
 \* Apply DALI signal between DA+ and DA-.  
 \* DALI protocol comprises 16 groups and 64 addresses.  
 \* First step is fixed at 8% of output. Please contact MEAN WELL for other setup.

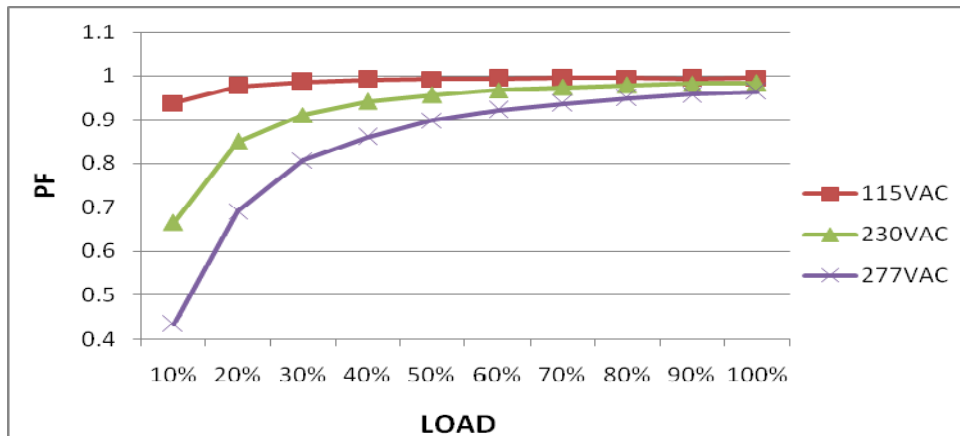
		I/P : 230VAC O/P : DIMMING TEST TA : 25°C TEST RESULT : OK																																													
9	<b>DIMMING OPERATION (for Dxx-Type by User definition)</b>	<p> <b>※Smart timer dimming function (for Dxx-Type by User definition)</b>            MEAN WELL Smart timer dimming primarily provides the adaptive proportion dimming profile for the output constant current level to perform up to 14 consecutive hours. 3 dimming profiles hereunder are defined accounting for the most frequently seen applications. If other options may be needed, please contact MEAN WELL for details.            Ex : Ⓒ D01-Type: the profile recommended for residential lighting         </p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p style="text-align: center;">Operating Time(HH:MM)</p> </div> <div style="width: 45%;"> <p>Set up for D01-Type in Smart timer dimming software program:</p> <table border="1" data-bbox="1045 604 1484 739"> <thead> <tr> <th></th> <th>T1</th> <th>T2</th> <th>T3</th> <th>T4</th> </tr> </thead> <tbody> <tr> <td>TIME**</td> <td>06:00</td> <td>07:00</td> <td>11:00</td> <td>---</td> </tr> <tr> <td>LEVEL**</td> <td>100%</td> <td>70%</td> <td>50%</td> <td>70%</td> </tr> </tbody> </table> </div> </div> <p>           Ex : Ⓒ D02-Type: the profile recommended for street lighting         </p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p style="text-align: center;">Operating Time(HH:MM)</p> </div> <div style="width: 45%;"> <p>Set up for D02-Type in Smart timer dimming software program:</p> <table border="1" data-bbox="997 1008 1500 1142"> <thead> <tr> <th></th> <th>T1</th> <th>T2</th> <th>T3</th> <th>T4</th> <th>T5</th> </tr> </thead> <tbody> <tr> <td>TIME**</td> <td>01:00</td> <td>03:00</td> <td>8:00</td> <td>11:00</td> <td>---</td> </tr> <tr> <td>LEVEL**</td> <td>50%</td> <td>80%</td> <td>100%</td> <td>60%</td> <td>80%</td> </tr> </tbody> </table> </div> </div> <p>           Ex : Ⓒ D03-Type: the profile recommended for tunnel lighting         </p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p style="text-align: center;">Operating Time(HH:MM)</p> </div> <div style="width: 45%;"> <p>Set up for D03-Type in Smart timer dimming software program:</p> <table border="1" data-bbox="1061 1400 1420 1534"> <thead> <tr> <th></th> <th>T1</th> <th>T2</th> <th>T3</th> </tr> </thead> <tbody> <tr> <td>TIME**</td> <td>01:30</td> <td>11:00</td> <td>---</td> </tr> <tr> <td>LEVEL**</td> <td>70%</td> <td>100%</td> <td>70%</td> </tr> </tbody> </table> </div> </div> <p>           I/P : 230VAC            O/P : DIMMING TEST            TA : 25°C            TEST RESULT : OK         </p>		T1	T2	T3	T4	TIME**	06:00	07:00	11:00	---	LEVEL**	100%	70%	50%	70%		T1	T2	T3	T4	T5	TIME**	01:00	03:00	8:00	11:00	---	LEVEL**	50%	80%	100%	60%	80%		T1	T2	T3	TIME**	01:30	11:00	---	LEVEL**	70%	100%	70%
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LEVEL**	70%	100%	70%																																												

## INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
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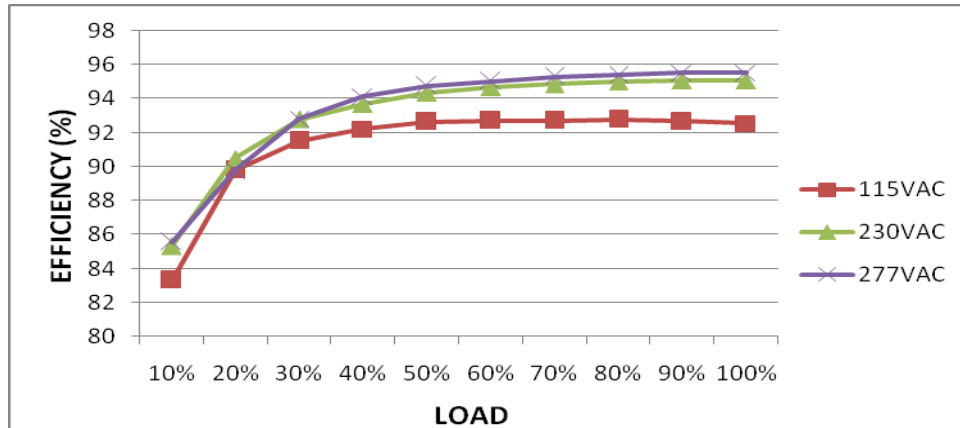
1	INPUT VOLTAGE RANGE	90VAC~305 VAC	I/P:TESTING O/P:FULL LOAD Ta:25°C	72V~305 V
			I/P: LOW-LINE-3V=87 V HIGH-LINE+10V=315 V O/P:FULL/MIN LOAD (PLEASE CHECK DERATING CURVE) ON: 30 Sec OFF: 30 Sec 10MIN ( POWER ON/OFF NO DAMAGE )	(1).TEST:OK (2).TEST :OK
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P: 100 VAC ~305VAC O/P:FULL~MIN LOAD Ta:25°C	OK
3	INPUT CURRENT (TYP)	277VAC/ 1.45 A 230 VAC/ 1.65 A 115 VAC/ 3.5 A	I/P: 277VAC/230 VAC/115 VAC O/P:FULL LOAD Ta:25°C	I=1.2508 A/277VAC I =1.4826A/ 230VAC I =3.0116A/ 115VAC
4	POWER FACTOR(TYP)	0.95/230 VAC FULL LOAD 0.98/115 VAC FULL LOAD 0.92/277 VAC FULL LOAD	I/P: 230 VAC/115VAC/277VAC O/P:FULL LOAD Ta:25°C	PF=0.9849/230V/100%LOAD PF=0.9965 /115V/100%LOAD PF= 0.9645 /277V/100%LOAD

P.F vs LOAD



5	EFFICIENCY (TYP)	94 %	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	95.04%
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EFFICIENCY vs LOAD

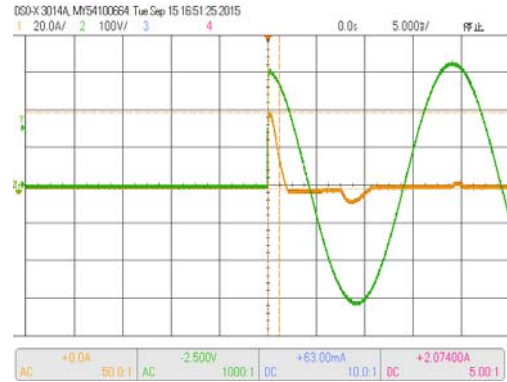


6	INRUSH CURRENT (TYP)	230 V/ 70 A COLD START	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	I = 40.25 A/ 230VAC
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(twidth=1200us measured at 50% lpeak) COLD START	T50= 1200 us
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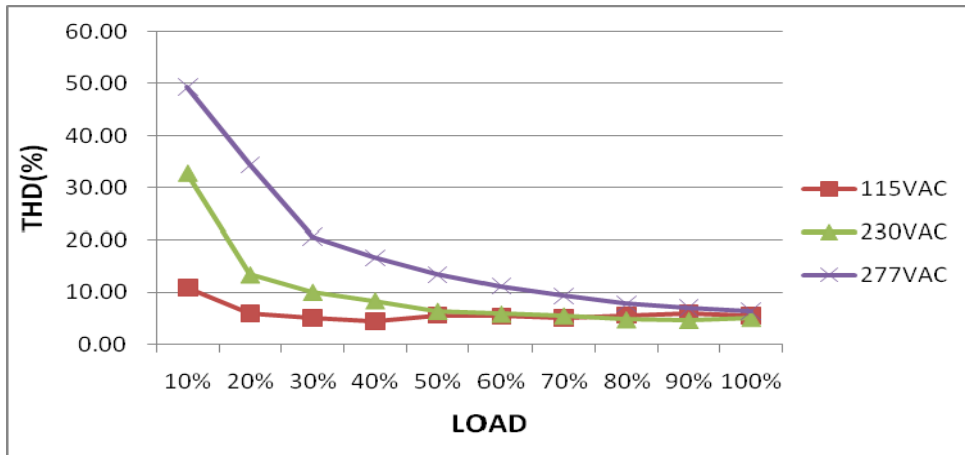
INPUT=230VAC/50HZ @ FULL LOAD

CH2 : AC Input Voltage CH1 : Input current (1V=20A)



7	TOTAL HARMONIC DISTORTION	THD < 20% @ $\geq 50\%$ load/115VAC/230VAC,	I/P : 230VAC O/P : 100% LOAD 50% LOAD Ta : 25°C	THD : 4.57 % THD : 7.55 %
			THD < 20% @ $\geq 70\%$ load/277VAC	I/P : 277VAC O/P : 100% LOAD 70% LOAD Ta : 25°C

THD vs LOAD



## ROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER VOLTAGE PROTECTION	V1: 120 V~ 132 V	I/P: 305VAC I/P: 230VAC I/P: 90VAC O/P: MIN LOAD Ta: 25°C	127.23V/ 305VAC 127.24V/ 230VAC 127.25V/ 90VAC PROTECTION TYPE : Shut down and latch off o/p voltage, re-power on to recover

2	OVER TEMPERATURE PROTECTION	PROTECTION TYPE : Shut down and latch off o/p voltage, re-power on to recover	I/P: 305 VAC I/P: 90 VAC O/P: FULL LOAD	O.T.P. Active PROTECTION TYPE : Shut down and latch off o/p voltage, re-power on to recover
3	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P: 305VAC I/P: 90 VAC O/P: FULL LOAD Ta:25°C	NO DAMAGE PROTECTION TYPE : Constant current limiting, recovers automatically after fault condition is removed

## COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM Transistor ( D to S) or (C to E) Peak Voltage	Q5 Rated 20 A/600 V VGS :± 25 V	I/P:High-Line +3V =308V AC ON/OFF VDS: O/P: (1)Full Load (2)Output Short (3) Full Load continue Ta:25°C	VDS: (1)521V/5.37A (2)546V/3.3/A (3)468V/2.56A
2	P.F.C Transistor ( D to S) or (C to E) Peak Voltage	Q 1 Rated 20 A/600 V VGS:±25V	I/P:High-Line +3V =308v AC ON/OFF VDS: O/P: (1)Full Load (2)Output Short (3) Full Load continue Ta:25°C	VDS: (1)562V/17.1A (2)546V/19.8A (3)596V/14.8A
3	P.F.C DIODE	D2 Rated 20 A/600 V	I/P:High-Line +3V =308 V AC ON/OFF O/P: (1)Full Load (2)Output Short (3) Full Load continue Ta:25°C	(1)481V (2)450V (3)446V
4	Diode Peak Voltage	D102 Rated 20A/300 V	I/P:High-Line +3V =308 V D102 : AC ON/OFF O/P: (1)Full Load (2)Output Short (3) Full Load continue Ta:25°C	VDS: (1)253V (2)15.6V (3)253V
5	Input Capacitor Voltage	C5 Rated: 220µ/ 450 V 105 °C Surge Voltage 495V	I/P:High-Line +3V =308V O/P: (1)Full Load input on/off (2) Min load input on /Off (3)Full Load /Min load Change (4)Full load continue Ta:25°C	(1)475V (2)443V (3)446V (4) 440V
6	Control IC Voltage Test	PWM IC U900 Rated 8.85 V~16V	I/P:High-Line +3V =308 V AC ON/OFF O/P(1)FULL LOAD (2) Output Short (3)O.L.P (4)O.V.P. Ta:25°C	(1) 12.1V (2) 12.8V (3) 12.8V (4) 12V

## SAFETY & EMC TEST

### SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	IEC60950-1 I/P-O/P: 3.75KVAC/min I/P-FG: 2 KVAC/min<4.5mA O/P-FG:1.5KVAC/min	I/P-O/P: 4.125 KVAC/min I/P-FG: 2.4KVAC/min O/P-FG: 1.8 KVAC/min Ta:25°C	I/P-O/P:4.33 mA I/P-FG: 4.1 mA O/P-FG:3.8 mA NO DAMAGE
2	ISOLATION RESISTANCE	I/P-O/P:500VDC>100MΩ I/P-FG: 500VDC>100MΩ O/P-FG:500VDC>100MΩ	I/P-O/P: 500 VDC I/P-FG: 500 VDC O/P-FG: 500 VDC Ta:25°C	I/P-O/P:18.5GΩ I/P-FG:6.28G Ω O/P-FG:30G Ω NO DAMAGE
3	GROUNDING CONTINUITY	IEC60950-1 FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40A / 2min Ta:25°C	26 mΩ
4	LEAKAGE CURRENT	IEC60950-1 < 0.75mA / 277VAC	I/P: 277 VAC O/P:Min LOAD Ta:25°C	L-FG:0.3 mA N-FG:0.3 mA L,N -V(+):0.21 mA L,N-V(-): 0.21 mA

### E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	HARMONIC	EN61000-3-2 CLASS A CLASS C	I/P: 230VAC/50HZ O/P:FULL LOAD Ta:25°C	PASS
2	CONDUCTION	EN55015 CLASS B	I/P: 230 VAC (50HZ) O/P:FULL/50% LOAD Ta:25°C	PASS Test by certified Lab
3	RADIATION	EN55015 CLASS B	I/P: 230 VAC (50HZ) O/P:FULL LOAD Ta:25°C	PASS Test by certified Lab
4	E.S.D	EN61000-4-2 INDUSTRY AIR:8KV / Contact:4KV	I/P: 230 VAC/50HZ O/P:FULL LOAD Ta:25°C	CRITERIA A
5	E.F.T	EN61000-4-4 INDUSTRY INPUT: 2KV	I/P: 230 VAC/50HZ O/P:FULL LOAD Ta:25°C	CRITERIA A
6	SURGE	IEC61000-4-5 INDUSTRY L-N :2KV L,N-PE:4KV	I/P: 230 VAC/50HZ O/P:FULL LOAD Ta:25°C	CRITERIA A
7	Test by certified Lab & Test Report Prepare. Any contradictions of the test results, please refer to the latest EMC test report.			



## RELIABILITY TEST

### ENVIRONMENT TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT																																																																																												
1	TEMPERATURE RISE TEST	MODEL : HLG-320H-C3500 1. ROOM AMBIENT BURN-IN : 1.5 HRS I/P : 230VAC O/P : FULL LOAD Ta= 29.4 °C 2. HIGH AMBIENT BURN-IN : 14 HRS I/P : 230VAC O/P : FULL LOAD Ta= 50.3 °C																																																																																														
				<table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta=29.4°C</th> <th>HIGH AMBIENT Ta=50.3°C</th> </tr> </thead> <tbody> <tr><td>1</td><td>L2</td><td>58.2°C</td><td>79.1°C</td></tr> <tr><td>2</td><td>C11</td><td>59.7°C</td><td>80.6°C</td></tr> <tr><td>3</td><td>L1</td><td>59.6°C</td><td>80.5°C</td></tr> <tr><td>4</td><td>BD1</td><td>62.3°C</td><td>83.2°C</td></tr> <tr><td>5</td><td>Q1</td><td>61.6°C</td><td>82.5°C</td></tr> <tr><td>6</td><td>RY1</td><td>59.6°C</td><td>80.5°C</td></tr> <tr><td>7</td><td>C5</td><td>58.5°C</td><td>79.4°C</td></tr> <tr><td>8</td><td>C81</td><td>60.3°C</td><td>81.2°C</td></tr> <tr><td>9</td><td>U1</td><td>58.9°C</td><td>79.8°C</td></tr> <tr><td>10</td><td>U900</td><td>58.6°C</td><td>79.5°C</td></tr> <tr><td>11</td><td>C902</td><td>60.3°C</td><td>81.2°C</td></tr> <tr><td>12</td><td>RTH2</td><td>58.8°C</td><td>79.7°C</td></tr> <tr><td>13</td><td>C906</td><td>57.7°C</td><td>78.6°C</td></tr> <tr><td>14</td><td>T1</td><td>63.4°C</td><td>84.3°C</td></tr> <tr><td>15</td><td>C202</td><td>59.2°C</td><td>80.1°C</td></tr> <tr><td>16</td><td>C201</td><td>57.6°C</td><td>78.5°C</td></tr> <tr><td>17</td><td>D102</td><td>64.4°C</td><td>85.3°C</td></tr> <tr><td>18</td><td>D103</td><td>62.2°C</td><td>83.1°C</td></tr> <tr><td>19</td><td>C103</td><td>58.6°C</td><td>79.5°C</td></tr> <tr><td>20</td><td>C108</td><td>58.5°C</td><td>79.4°C</td></tr> <tr><td>21</td><td>C110</td><td>57.7°C</td><td>78.6°C</td></tr> <tr><td>22</td><td>Q5</td><td>61.2°C</td><td>82.1°C</td></tr> </tbody> </table>	NO	Position	ROOM AMBIENT Ta=29.4°C	HIGH AMBIENT Ta=50.3°C	1	L2	58.2°C	79.1°C	2	C11	59.7°C	80.6°C	3	L1	59.6°C	80.5°C	4	BD1	62.3°C	83.2°C	5	Q1	61.6°C	82.5°C	6	RY1	59.6°C	80.5°C	7	C5	58.5°C	79.4°C	8	C81	60.3°C	81.2°C	9	U1	58.9°C	79.8°C	10	U900	58.6°C	79.5°C	11	C902	60.3°C	81.2°C	12	RTH2	58.8°C	79.7°C	13	C906	57.7°C	78.6°C	14	T1	63.4°C	84.3°C	15	C202	59.2°C	80.1°C	16	C201	57.6°C	78.5°C	17	D102	64.4°C	85.3°C	18	D103	62.2°C	83.1°C	19	C103	58.6°C	79.5°C	20	C108	58.5°C	79.4°C	21	C110	57.7°C	78.6°C	22	Q5	61.2°C	82.1°C
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2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 305VAC/110VAC O/P : 100 % LOAD Ta= -45°C	TEST : OK																																																																																												
3	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 60°C NO DAMAGE	I/P : 315 VAC O/P : FULL LOAD Ta= 60°C HUMIDITY= 95 %R.H	TEST : OK																																																																																												
4	TEMPERATURE COEFFICIENT	± 0.03 %/°C (0~50°C)	I/P : 230 VAC O/P : FULL LOAD	± 0.001%/°C (0~50°C)																																																																																												
5	STORAGE TEMPERATURE TEST	1. Thermal shock Temperature : -50°C~ +125°C 2. Temperature change rate : 25°C / MIN 3. Dwell time low and high temperature : 30 MIN/EACH 4. Total test cycle : 5 CYCLE 5. Input/Output condition : STATIC		OK																																																																																												

6	THERMAL SHOCK TEST	1. Thermal shock Temperature : -45°C~ +65°C 2. Temperature change rate : 25°C / MIN 3. Dwell time low and high temperature : 30 MIN/EACH 4. Total test cycle : 16 CYCLE 5. Input/Output condition : 15cycle:230V/ FULL LOAD AC ON 3sec/AC OFF 1sec TEST 1cycle:230V/ FULL LOAD Burn In Test	OK
7	VIBRATION TEST	1 Carton & 1 Set (1) Waveform : Sine Wave (2) Frequency : 10~500Hz (3) Sweep Time : 12min/sweep cycle (4) Acceleration : 5G (5) Test Time : 72min in each axis (X.Y.Z) (6) Ta : 25°C	TEST : OK
8	CAPACITOR LIFE CYCLE	SUPPOSE C103 IS THE MOST CRITICAL COMPONENT (1) I/P : 230VAC O/P : FULL LOAD Tc=75 °C LIFE TIME (2) I/P : 230VAC O/P : 75% LOAD Tc=75 °C LIFE TIME (3) I/P : 230VAC O/P : 50% LOAD Tc=75 °C LIFE TIME	(1) 73137 HRS (2) 84016 HRS (3) 91780 HRS
9	MTBF	Conducted by Parts Stress Analysis Prediction 168.2K hrs min. MIL-HDBK-217F (25°C)	
10	Ongoing Reliability Test	I/P : 230VAC O/P : FULL LOAD TA=50°C Demonstration Mean Time Between Failure : 62,000 hours	

TEST RESULT	TESTER	REVIEW	APPROVAL
PASS	DANIEL GAO	SANFORD SU	VINCENT ZENG

12.10.30 A50-F031