



Test Report: HLG-480H-C2800

480W 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

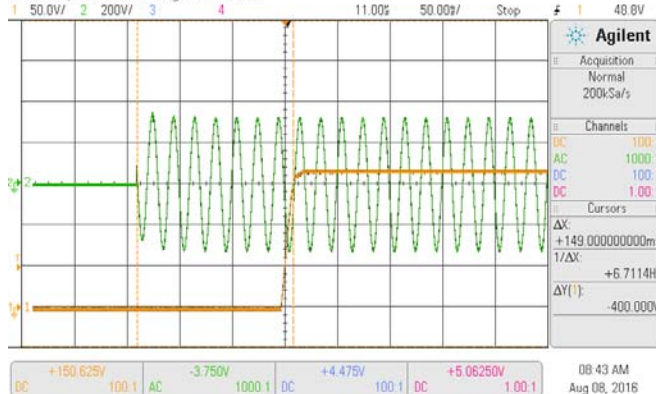
OUTPUT FUNCTION TEST

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	2.800A /230VAC@CV MAX-1V 2.793A /230VAC@CV MIN 2.801A/115VAC@CV MAX-1V 2.793A/115VAC@CV MIN -0.25%
2	CONSTANT CURRENT REGION	CH1: 85 V~ 171V	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	50V~171V /230VAC
3	OPEN CIRCUIT VOLTAGE (max.)	210V	I/P: 230 VAC O/P:NO LOAD Ta:25°C	173.62V
4	CURRENT ADJ. RANGE	CH1:1400mA~ 2800mA	I/P: 230 VAC I/P:115VAC O/P:CV MIN & CV MAX-1V Ta:25°C	1.224A~3.000 A /230VAC@CV MAX-1V 1.22A~ 2.990A /230VAC@CV MIN 1.224A~3.000A/115VAC@CV MAX-1V 1.22A~2.990A/115VAC@CV MIN
5	CURRENT RIPPLE	5% max. @rated current	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	2.84%
6	SET UP TIME (Max)	230VAC/ 500 ms (Max) 115VAC/ 500ms (Max)	I/P: 230 VAC I/P: 115 VAC O/P:FULL LOAD Ta:25°C	230VAC/ 149ms 115 VAC/ 174ms

INPUT=230VAC/50HZ @ FULL LOAD

CH1 : Output Voltage CH2 : AC Input Voltage

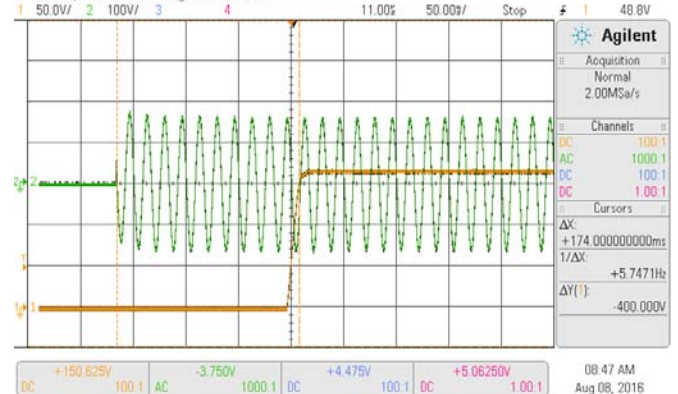
050-X-3014A, M154100664, Mon Aug 08 08:44:04 2016



INPUT=115VAC/60HZ @ FULL LOAD

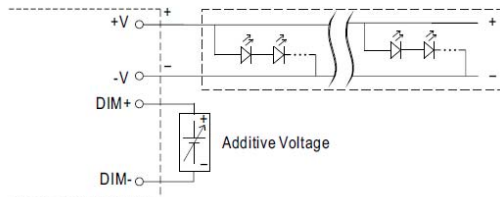
CH1 : Output Voltage CH2 : AC Input Voltage

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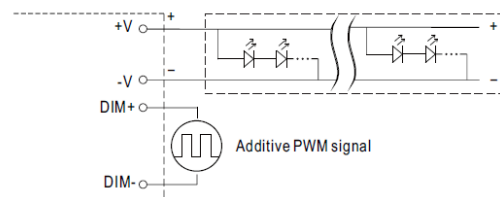
7	DIMMING OPERATION (for B-Type)	<p>※3 in 1 dimming function</p> <p>※Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 10VDC, or 10V PWM signal or resistance.</p> <p>※Direct connecting to LEDs is suggested. It is not suitable to be used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



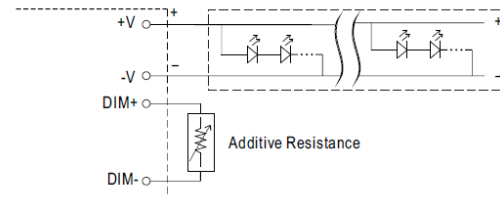
"DO NOT connect "DIM- to -V"

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

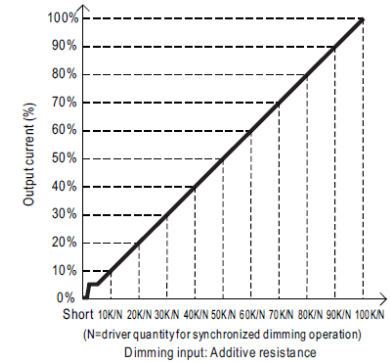
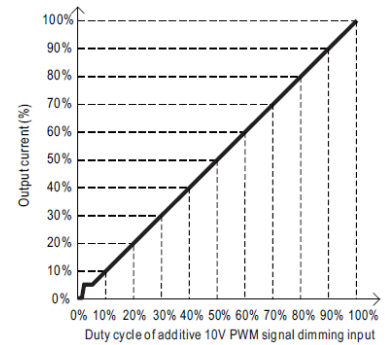
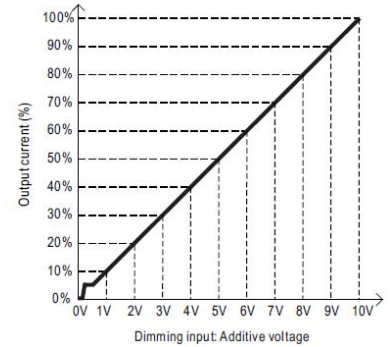


"DO NOT connect "DIM- to -V"

◎ Applying additive resistance:



"DO NOT connect "DIM- to -V"



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 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.

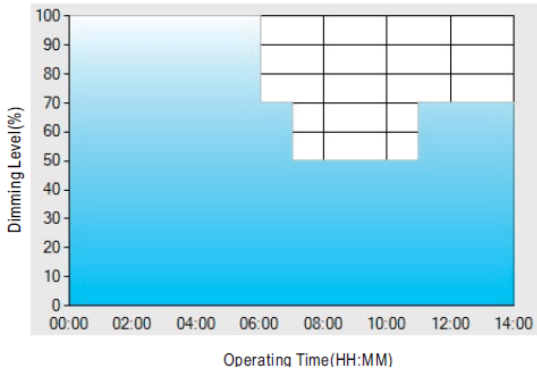
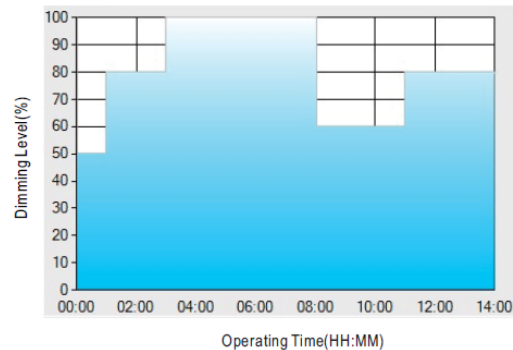
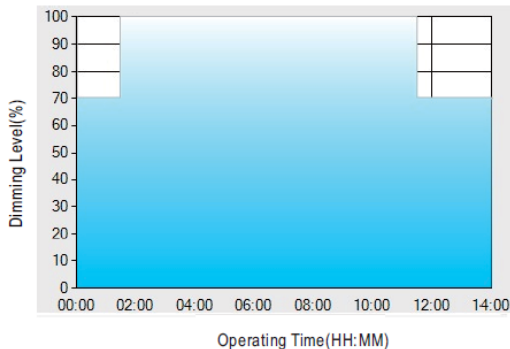
I/P : 230VAC

O/P : DIMMING TEST

TA : 25°C

R	SHORT	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	OPEN
O/P CURRENT	0A	0.269A	0.563A	0.855A	1.159A	1.430A	1.700A	1.990A	2.280A	2.570A	2.800A	2.800A
%	0%	9.61%	20.11%	30.54%	41.39%	51.07%	60.71%	71.07%	81.43%	91.79%	100.00%	100.00%
V	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
O/P CURRENT	0A	0.265A	0.575A	0.850A	1.141A	1.440A	1.690A	1.980A	2.300A	2.572A	2.800A	2.800A
%	0%	9.46%	20.54%	30.36%	40.75%	51.43%	60.36%	70.71%	82.14%	91.86%	100.00%	100.00%
PWM (100HZ)	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
O/P CURRENT	0A	0.212A	0.516A	0.821A	1.096A	1.390A	1.680A	1.970A	2.270A	2.540A	2.800A	2.800A
%	0%	7.57%	18.43%	29.32%	39.14%	49.64%	60.00%	70.36%	81.07%	90.71%	100.00%	100.00%

TEST RESULT : OK

<p>8 DIMMING OPERATION (for Dxx-Type by User definition)</p>	<p>※Smart timer dimming function (for Dxx-Type by User definition) 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>  <p>Set up for D01-Type in Smart timer dimming software program:</p> <table border="1" data-bbox="1050 593 1484 721"> <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> <p>Ex: ☉ D02-Type: the profile recommended for street lighting</p>  <p>Set up for D02-Type in Smart timer dimming software program:</p> <table border="1" data-bbox="997 990 1497 1117"> <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> <p>Ex: ☉ D03-Type: the profile recommended for tunnel lighting</p>  <p>Set up for D03-Type in Smart timer dimming software program:</p> <table border="1" data-bbox="1066 1384 1417 1512"> <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> <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
1	INPUT VOLTAGE RANGE	90VAC-305 VAC	I/P:TESTING O/P:FULL LOAD Ta:25°C	74V-305 V



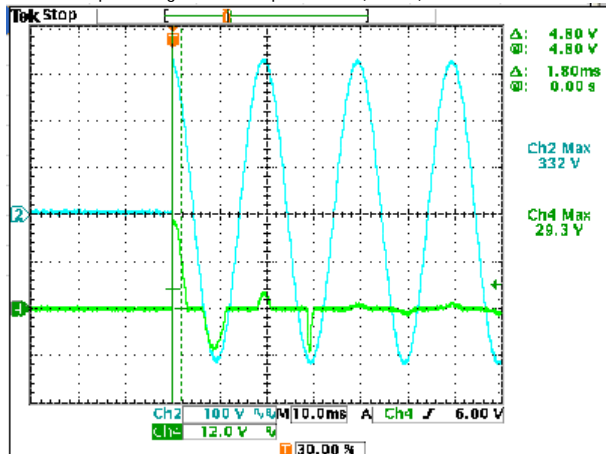
480W Single Output LED Power Supply

HLG-480H-C series

			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)	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/ 2A 230 VAC/ 2.45 A 115 VAC/ 5 A	I/P: 277VAC/230 VAC/115 VAC O/P:FULL LOAD Ta:25°C	I=1.86A/277VAC I =2.206 A/ 230VAC I =4.433A/ 115VAC
4	LEAKAGE CURRENT	< 0.75 mA/ 277 VAC	I/P : 277 VAC O/P : Min LOAD Ta : 25°C	L-FG: 0.26mA N-FG: 0.26mA
5	INRUSH CURRENT (TYP)	230 V/ 35A COLD START (twidth=1800us measured at 50% Ipeak) COLD START	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	I = 29.3 A/ 230VAC T50=1320 μS

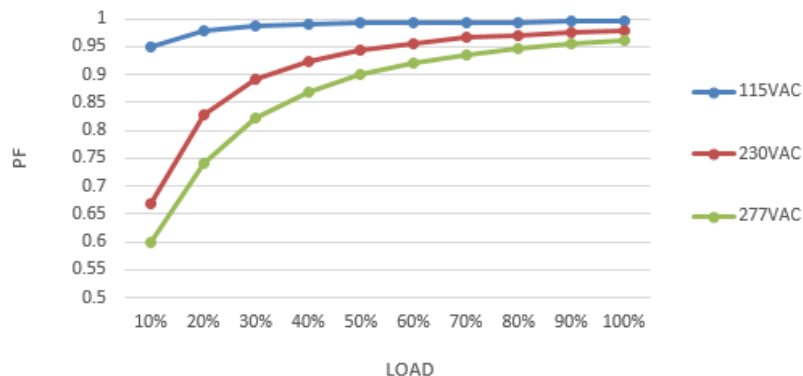
INPUT=230VAC/50HZ @ FULL LOAD

CH2 : AC Input Voltage CH4 : Input current (1V=1A)



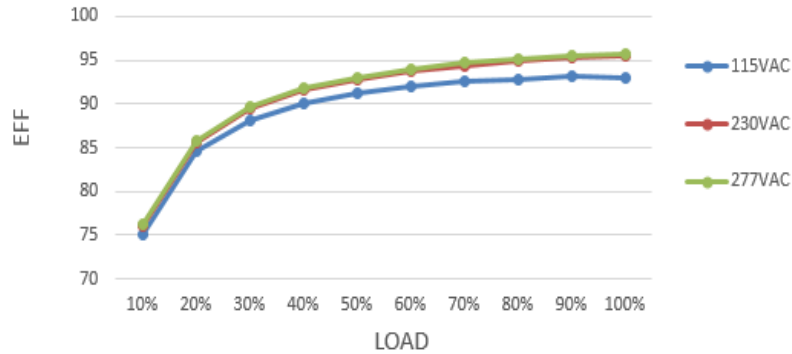
6	POWER FACTOR(TYP)	0.95/230 VAC FULL LOAD 0.98/115 VAC FULL LOAD 0.94/277 VAC FULL LOAD	I/P: 230 VAC/115VAC/277VAC O/P:FULL LOAD Ta:25°C	PF= 0.9815/230V/100%LOAD PF=0.9977/115V/100%LOAD PF=0.962 /277V/100%LOAD
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P.F vs LOAD



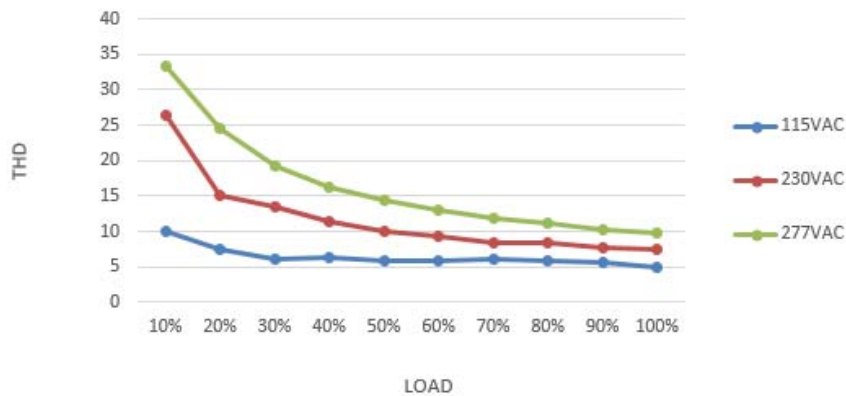
7	EFFICIENCY (TYP)	95 %	I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	95.3 %
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EFFICIENCY vs LOAD



8	TOTAL HARMONIC DISTORTION	THD < 20% @ output load ≥ 40% at 115VAC/230VAC/277VAC input	I/P : 115VAC O/P : 100% LOAD 40% LOAD Ta : 25°C	THD : 7.1 % THD : 7.2 %
			I/P : 230VAC O/P : 100% LOAD 40% LOAD Ta : 25°C	THD : 8.12 % THD : 12.9 %
			I/P : 277VAC O/P : 100% LOAD 40% LOAD Ta : 25°C	THD : 10.47 % THD : 16.23 %

THD&LOAD



PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER VOLTAGE PROTECTION	V1: 215 V~ 246 V PROTECTION TYPE : Shut down output voltage, re-power on to recovery	I/P: 305VAC I/P: 230VAC I/P: 90VAC O/P: MIN LOAD Ta: 25°C	224V/ 305VAC 224V/ 230VAC 224V/ 90VAC PROTECTION TYPE : Shut down-Repower ON

2	OVER TEMPERATURE PROTECTION	PROTECTION TYPE : Shut down output voltage, re-power on to recovery	I/P: 305 VAC I/P: 90 VAC O/P: FULL LOAD	O.T.P Active PROTECTION TYPE : Shut down-Repower ON
3	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE PROTECTION TYPE : Constant current, recovers automatically after fault condition is removed	I/P: 305VAC I/P: 90 VAC O/P: FULL LOAD Ta:25°C	NO DAMAGE PROTECTION TYPE : Current Limiting

COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM Transistor (D to S) or (C to E) Peak Voltage	Q 10 Rated 13 A/ 650 V Q 13 Rated 13 A/ 650 V	I/P:High-Line +3V =308V AC ON/OFF VDS: O/P: (1)Full Load (2)Output Short (3) Full Load continue (4)NO LOAD I/P:Low-Line -3V = 97V VDS: O/P: (1)Full Load (2)Output Short (3) Full Load continue (4)NO LOAD Ta:25°C	Q10 Q13 VDS: VDS: (1)500V (1)494V (2)486V (2)478V (3)470V (3)482V (4)470V (4).482V VDS: VDS: (1)522V (1)494V (2)486V (2)478V (3)478V (3)474V (4)458V (4)486V
2	P.F.C Transistor (D to S) or (C to E) Peak Voltage	Q1 Rated 13 A/ 650 V	I/P:High-Line +3V =308V AC ON/OFF VDS: O/P: (1)Full Load (2)Output Short (3) Full Load continue (4)NO LOAD I/P:Low-Line -3V = 97V VDS: O/P: (1)Full Load (2)Output Short (3) Full Load continue (4)NO LOAD Ta:25°C	Q1 VDS: (1)532V (2)456V (3)508V (4)460V VDS: (1)605V (2)476V (3)605V (4)460V
3	P.F.C DIODE	D8 Rated 12A/ 600V	I/P:High-Line +3V =308 V AC ON/OFF O/P: (1)Full Load (2)Output Short (3) Full Load continue (4)NO LOAD I/P:Low-Line -3V = 97V AC ON/OFF O/P: (1)Full Load (2)Output Short (3) Full Load continue (4)NO LOAD	308V (1) 469V (2) 437V (3) 437V (4) 441V 97V (1) 521V (2)429V (3)517V (4)429V

			Ta:25°C	
4	Diode Peak Voltage	D100 Rated 10A/ 400 V D101 Rated 20A/600 V	I/P:High-Line +3V =308 V AC ON/OFF O/P: (1)Full Load (2)Output Short (3) Full Load continue (4)NO LOAD (5) burst mode Ta:25°C	D100: 308V VDS: (1)369V (2)35V (3)361V (4)365V (5)361V D101: VDS: (1)373V (2)39V (3)365V (4)361V (5)365V
5	Input Capacitor Voltage	C5 Rated: 150μ/ 450V	I/P:High-Line +3V =308V O/P: (1)Full Load input on/off (2) Min load input on /Off (3)Full load continue Ta:25°C	(1)448V (2)447V (3) 435V
6	Control IC Voltage Test	PWM IC U2 Rated 16V~ 8.85V(MIN.) PFC IC U1 Rated 20V~10.5V(MIN.)	I/P:High-Line +3V =308 V AC ON/OFF O/P:(1)FULL LOAD (2) Output Short (3)O.V.P. Ta:25°C	U2 (1)13.5V (2)13.3V (3)13.37V U1 (1)14.125V (2)14.125V (3)13.9V

SAFETY & EMC TEST REPORT

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:4.48mA I/P-FG:3.98mA O/P-FG: 5.49 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:23.3GΩ I/P-FG:11.1GΩ O/P-FG:30GΩ NO DAMAGE
3	GROUNDING CONTINUITY	IEC60950-1 FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40A / 2min Ta:25°C	25mΩ

E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	HARMONIC	EN61000-3-2 CLASS C	I/P: 230 VAC/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 LIGHT INDUSTRY	I/P: 230 VAC/50HZ O/P:FULL LOAD	CRITERIA A

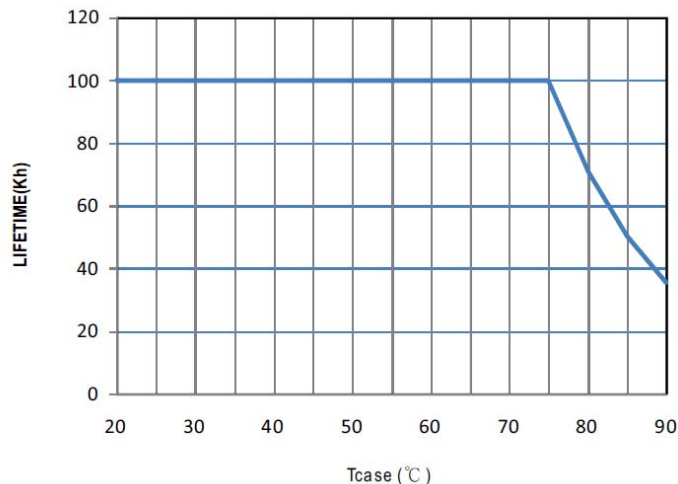
		AIR:8KV / Contact:4KV	Ta:25°C	
5	E.F.T	EN61000-4-4 LIGHT INDUSTRY INPUT: 1KV	I/P: 230 VAC/50HZ O/P:FULL LOAD Ta:25°C	CRITERIA A
6	SURGE	IEC61000-4-5 LIGHT INDUSTRY L-N :2KV L,N-PE:4KV	I/P: 230 VAC/50HZ O/P:FULL LOAD Ta:25°C	CRITERIA A
7	Test by certified Lab & Test Report Prepare			

RELIABILITY TEST

ENVIRONMENT TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT																																																																																																												
1	TEMPERATURE RISE TEST	MODEL : HLG-480H-C3500 1. ROOM AMBIENT BURN-IN : 3 HRS I/P : 230VAC O/P : FULL LOAD Ta= 31.2°C 2. HIGH AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta= 60°C																																																																																																														
				<table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta= 31.2 °C</th> <th>HIGH AMBIENT Ta= 60°C</th> </tr> </thead> <tbody> <tr><td>1</td><td>BD2</td><td>66.4°C</td><td>97.1°C</td></tr> <tr><td>2</td><td>C10</td><td>62.0°C</td><td>93.3°C</td></tr> <tr><td>3</td><td>Q1</td><td>62.4°C</td><td>92.7°C</td></tr> <tr><td>4</td><td>D8</td><td>65.5°C</td><td>96.7°C</td></tr> <tr><td>5</td><td>Q10</td><td>64.8°C</td><td>95.0°C</td></tr> <tr><td>6</td><td>Q12</td><td>66.5°C</td><td>95.3°C</td></tr> <tr><td>7</td><td>RY1</td><td>64.0°C</td><td>95.5°C</td></tr> <tr><td>8</td><td>LF2</td><td>58.3°C</td><td>89.6°C</td></tr> <tr><td>9</td><td>ZNR2</td><td>58.2°C</td><td>88.8°C</td></tr> <tr><td>10</td><td>C1</td><td>57.3°C</td><td>87.8°C</td></tr> <tr><td>11</td><td>C5</td><td>58.4°C</td><td>89.5°C</td></tr> <tr><td>12</td><td>L3</td><td>66.0°C</td><td>95.6°C</td></tr> <tr><td>13</td><td>U1</td><td>58.7°C</td><td>88.8°C</td></tr> <tr><td>14</td><td>U2</td><td>59.2°C</td><td>89.8°C</td></tr> <tr><td>15</td><td>T1</td><td>69.0°C</td><td>96.7°C</td></tr> <tr><td>16</td><td>T2</td><td>71.2°C</td><td>101.2°C</td></tr> <tr><td>17</td><td>D101</td><td>63.9°C</td><td>93.1°C</td></tr> <tr><td>18</td><td>D113</td><td>65.8°C</td><td>94.2°C</td></tr> <tr><td>19</td><td>C105</td><td>60.4°C</td><td>92.6°C</td></tr> <tr><td>20</td><td>LF100</td><td>59.9°C</td><td>88.8°C</td></tr> <tr><td>21</td><td>T500</td><td>61.7°C</td><td>90.0°C</td></tr> <tr><td>22</td><td>C511</td><td>60.3°C</td><td>91.0°C</td></tr> <tr><td>23</td><td>U501</td><td>58.5°C</td><td>89.4°C</td></tr> <tr><td>24</td><td>J101</td><td>60.1°C</td><td>90.2°C</td></tr> <tr><td>25</td><td>C93</td><td>62.2°C</td><td>92.9°C</td></tr> <tr><td>26</td><td>RTH2</td><td>60.8°C</td><td>90.2°C</td></tr> </tbody> </table>	NO	Position	ROOM AMBIENT Ta= 31.2 °C	HIGH AMBIENT Ta= 60°C	1	BD2	66.4°C	97.1°C	2	C10	62.0°C	93.3°C	3	Q1	62.4°C	92.7°C	4	D8	65.5°C	96.7°C	5	Q10	64.8°C	95.0°C	6	Q12	66.5°C	95.3°C	7	RY1	64.0°C	95.5°C	8	LF2	58.3°C	89.6°C	9	ZNR2	58.2°C	88.8°C	10	C1	57.3°C	87.8°C	11	C5	58.4°C	89.5°C	12	L3	66.0°C	95.6°C	13	U1	58.7°C	88.8°C	14	U2	59.2°C	89.8°C	15	T1	69.0°C	96.7°C	16	T2	71.2°C	101.2°C	17	D101	63.9°C	93.1°C	18	D113	65.8°C	94.2°C	19	C105	60.4°C	92.6°C	20	LF100	59.9°C	88.8°C	21	T500	61.7°C	90.0°C	22	C511	60.3°C	91.0°C	23	U501	58.5°C	89.4°C	24	J101	60.1°C	90.2°C	25	C93	62.2°C	92.9°C	26	RTH2	60.8°C	90.2°C
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	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 305VAC/100VAC O/P : 100 % LOAD Ta= -45°C	TEST : OK
	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
	TEMPERATURE COEFFICIENT	± 0.03%/°C(0-60°C)	I/P : 230 VAC O/P : FULL LOAD	± 0.007 %/°C(0-60°C)
	STORAGE TEMPERATURE TEST	<ol style="list-style-type: none"> 1. Thermal shock Temperature : -45°C~ +90°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
	THERMAL SHOCK TEST	<ol style="list-style-type: none"> 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 : 10 CYCLE 5. Input/Output condition : 15cycle:230V/ FULL LOAD AC ON 3sec/AC OFF 1sec TEST 1cycle:230V/ FULL LOAD Burn In Test 		OK
8	VIBRATION TEST	<ol style="list-style-type: none"> 1 Carton & 1 Set (1) Waveform : Sine Wave (2) Frequency : 10-500Hz (3) Sweep Time : 12min/sweep cycle (4) Acceleration : 5G (5) Test Time : 60min in each axis (X.Y.Z) (6) Ta : 25°C 		TEST : OK
9	CAPACITOR LIFE CYCLE	<p>SUPPOSE C105 IS THE MOST CRITICAL COMPONENT</p> <ol style="list-style-type: none"> (1) I/P : 230VAC O/P : FULL LOAD Ta= 25 °C LIFE TIME (2) I/P : 230VAC O/P : FULL LOAD Ta= 60 °C LIFE TIME (3) I/P : 230VAC O/P : 75% LOAD Ta= 60 °C LIFE TIME (4) I/P : 230VAC O/P : 50% LOAD Ta= 60 °C LIFE TIME 		<ol style="list-style-type: none"> (1) 445747HRS (2) 31104HRS (3) 39059HRS (4) 43434HRS
10	MTBF	Conducted by Parts Stress Analysis Prediction 421.1K hrs min. Telcordia SR-332 (Bellcore) ; 110.5K hrs min. MIL-HDBK-217F (25°C)		
11	DMTBF/Accelerated Life Test	Demonstration Mean Time Between Failure (Expected Life): 62,000 hours @ Tcase 75°C		





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

12.10.30 A50-F031