



Test Report: HLG-240H-C700

250W 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

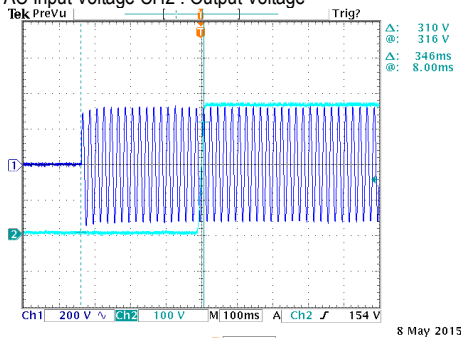
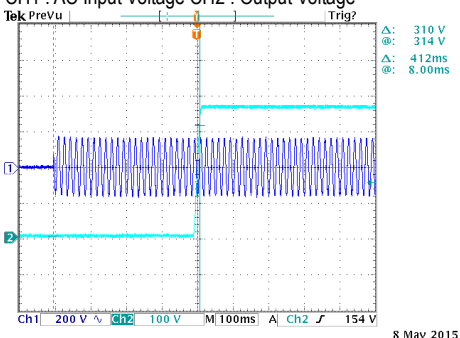
E.M.C. Test

■ RELIABILITY TEST

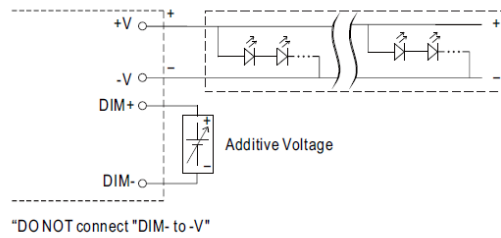
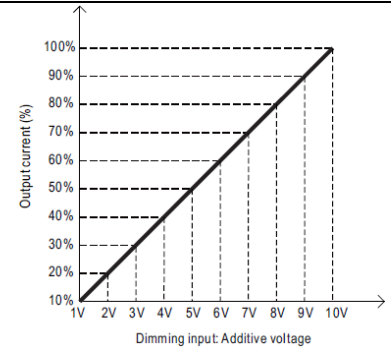
ENVIRONMENT TEST

DESIGN VERIFY TEST

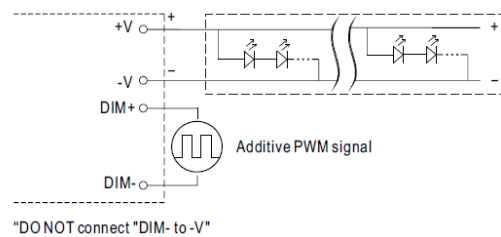
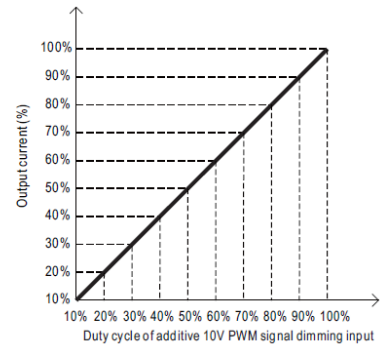
OUTPUT FUNCTION TEST

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	0.720A / 230VAC @ CV MAX-2V 0.716A / 230VAC @ CV MIN 0.720A / 115VAC @ CV MAX-2V 0.715A / 115VAC @ CV MIN +2.85%
2	CONSTANT CURRENT REGION	CH1: 178V~ 357 V	I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	68V~357 V / 230VAC
3	OPEN CIRCUIT VOLTAGE (max.)	360V	I/P: 230 VAC O/P: NO LOAD Ta: 25°C	357.5V
4	CURRENT ADJ. RANGE	CH1: 350mA~ 700mA	I/P: 230 VAC I/P: 115VAC O/P: CV MIN & CV MAX-2V Ta: 25°C	0.3193A~0.7504 A / 230VAC @ CV MAX-2V 0.3197A~0.7504 A / 230VAC @ CV MIN 0.3193A~ 0.754A / 115VAC @ CV MAX-2V 0.3197A~ 0.7504A / 115VAC @ CV MIN
5	CURRENT RIPPLE	5.0% max. @ rated current	I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	1.73%
6	SET UP TIME (Max)	230VAC/500 ms 115VAC/1000ms	I/P: 230 VAC I/P: 115 VAC O/P: FULL LOAD Ta: 25°C	230VAC/ 346ms 115 VAC/ 412ms
<div> <div> <p>INPUT=230VAC/50HZ @ FULL LOAD</p> <p>CH1 : AC Input Voltage CH2 : Output Voltage</p>  </div> <div> <p>INPUT=115VAC/60HZ @ FULL LOAD</p> <p>CH1 : AC Input Voltage CH2 : Output Voltage</p>  </div> </div>				
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-: 1 ~ 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>		

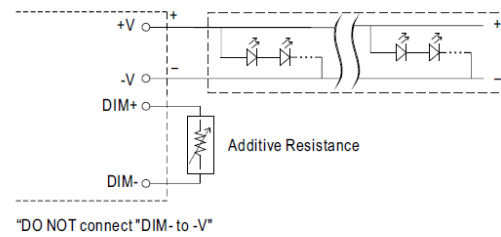
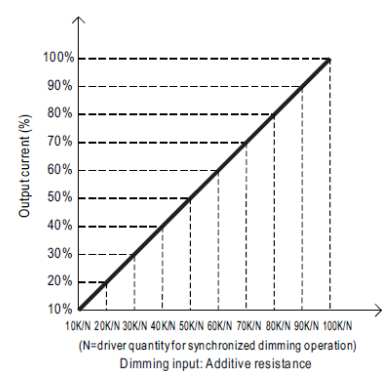
◎ Applying additive 1 ~ 10VDC



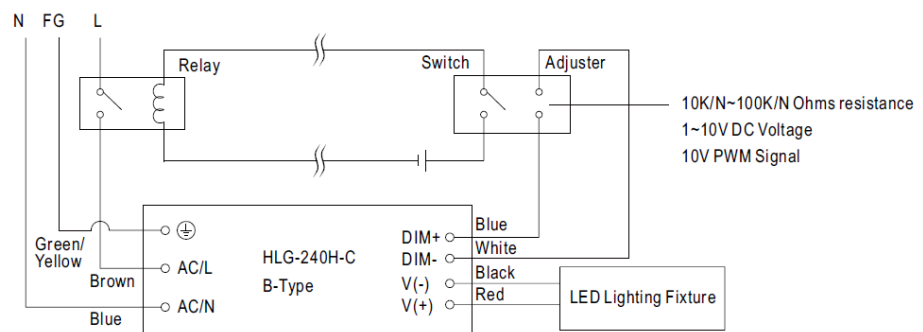
◎ Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):



◎ Applying additive resistance:



Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



Using a switch and relay can turn ON/OFF the lighting fixture.

I/P : 230VAC

O/P : DIMMING TEST

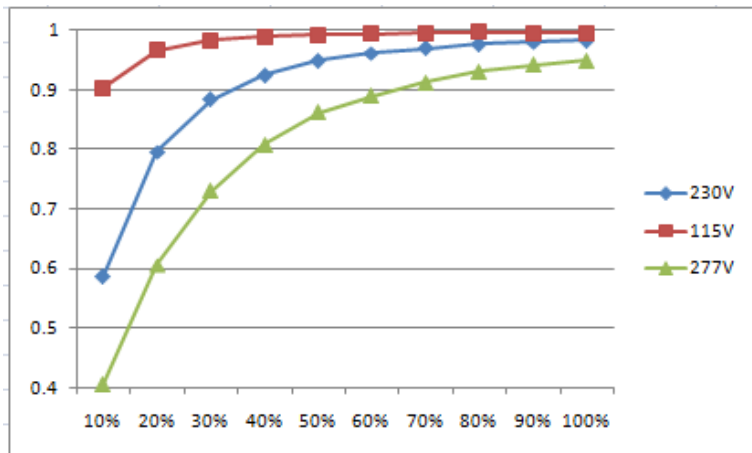
TA : 25°C

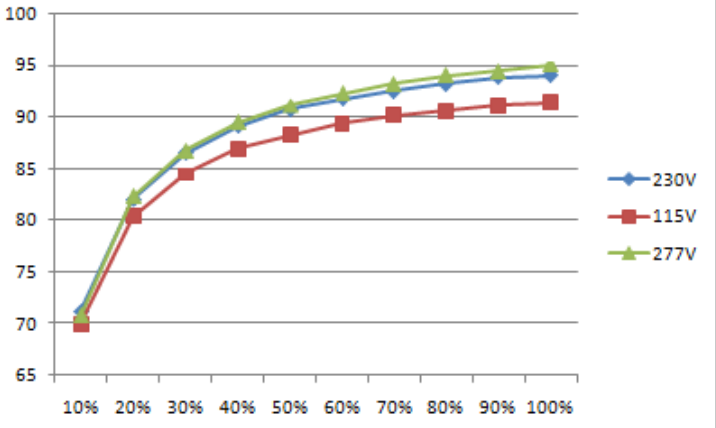
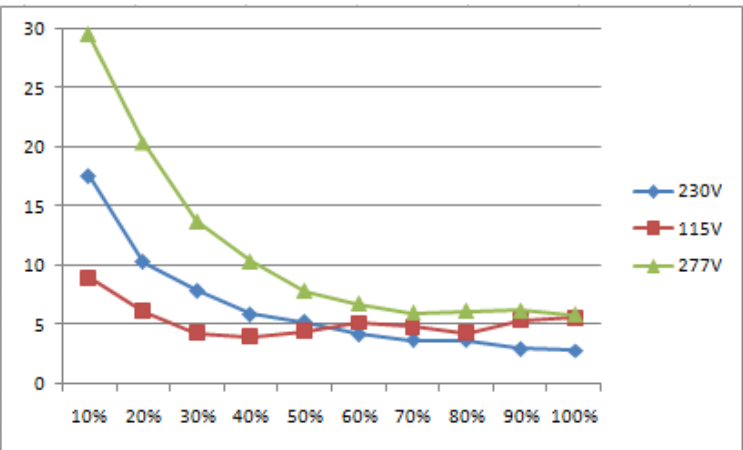
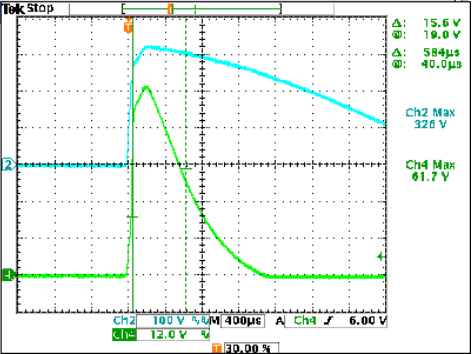
R	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	OPEN
O/P CURRENT	0.073A	0.141A	0.212A	0.276A	0.350A	0.420A	0.490A	0.552A	0.627A	0.692A	0.706A
%	10.47%	20.11%	30.29%	39.37%	49.99%	60.03%	69.93%	78.79%	89.63%	98.89%	100.86%
V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN

		<table><tr><td>O/P CURRENT</td><td>0.077A</td><td>0.144A</td><td>0.212A</td><td>0.286A</td><td>0.361A</td><td>0.423A</td><td>0.496A</td><td>0.565A</td><td>0.637A</td><td>0.702A</td><td>0.706A</td></tr><tr><td>%</td><td>11.03%</td><td>20.57%</td><td>30.29%</td><td>40.84%</td><td>51.57%</td><td>60.41%</td><td>70.89%</td><td>80.71%</td><td>90.97%</td><td>100.27%</td><td>100.86%</td></tr><tr><td>PWM (100HZ)</td><td>10%</td><td>20%</td><td>30%</td><td>40%</td><td>50%</td><td>60%</td><td>70%</td><td>80%</td><td>90%</td><td>100%</td><td>OPEN</td></tr><tr><td>O/P CURRENT</td><td>0.069A</td><td>0.143A</td><td>0.214A</td><td>0.287A</td><td>0.357A</td><td>0.427A</td><td>0.496A</td><td>0.566A</td><td>0.636A</td><td>0.705A</td><td>0.706A</td></tr><tr><td>%</td><td>9.90%</td><td>20.39%</td><td>30.59%</td><td>40.94%</td><td>50.96%</td><td>61.03%</td><td>70.90%</td><td>80.86%</td><td>90.84%</td><td>100.70%</td><td>100.86%</td></tr></table>	O/P CURRENT	0.077A	0.144A	0.212A	0.286A	0.361A	0.423A	0.496A	0.565A	0.637A	0.702A	0.706A	%	11.03%	20.57%	30.29%	40.84%	51.57%	60.41%	70.89%	80.71%	90.97%	100.27%	100.86%	PWM (100HZ)	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN	O/P CURRENT	0.069A	0.143A	0.214A	0.287A	0.357A	0.427A	0.496A	0.566A	0.636A	0.705A	0.706A	%	9.90%	20.39%	30.59%	40.94%	50.96%	61.03%	70.90%	80.86%	90.84%	100.70%	100.86%
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8	<div>DIMMING OPERATION (for Dxx-Type by User definition)</div>	<div>※Smart timer dimming function (for Dxx-Type by User definition)</div> <div>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.</div> <div>Ex : ☒ D01-Type: the profile recommended for residential lighting</div> <div><div><div><div>100</div><div>90</div><div>80</div><div>70</div><div>60</div><div>50</div><div>40</div><div>30</div><div>20</div><div>10</div><div>0</div></div><div><div>00:00</div><div>02:00</div><div>04:00</div><div>06:00</div><div>08:00</div><div>10:00</div><div>12:00</div><div>14:00</div></div></div><div><div>Dimming Level(%)</div><div>Operating Time(HH:MM)</div></div></div> <div>Set up for D01-Type in Smart timer dimming software program:</div> <table><tr><td></td><td>T1</td><td>T2</td><td>T3</td><td>T4</td></tr><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></table> <div>Ex : ☐ D02-Type: the profile recommended for street lighting</div> <div><div><div><div>100</div><div>90</div><div>80</div><div>70</div><div>60</div><div>50</div><div>40</div><div>30</div><div>20</div><div>10</div><div>0</div></div><div><div>00:00</div><div>02:00</div><div>04:00</div><div>06:00</div><div>08:00</div><div>10:00</div><div>12:00</div><div>14:00</div></div></div><div><div>Dimming Level(%)</div><div>Operating Time(HH:MM)</div></div></div> <div>Set up for D02-Type in Smart timer dimming software program:</div> <table><tr><td></td><td>T1</td><td>T2</td><td>T3</td><td>T4</td><td>T5</td></tr><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></table> <div>Ex : ☐ D03-Type: the profile recommended for tunnel lighting</div> <div><div><div><div>100</div><div>90</div><div>80</div><div>70</div><div>60</div><div>50</div><div>40</div><div>30</div><div>20</div><div>10</div><div>0</div></div><div><div>00:00</div><div>02:00</div><div>04:00</div><div>06:00</div><div>08:00</div><div>10:00</div><div>12:00</div><div>14:00</div></div></div><div><div>Dimming Level(%)</div><div>Operating Time(HH:MM)</div></div></div> <div>Set up for D03-Type in Smart timer dimming software program:</div> <table><tr><td></td><td>T1</td><td>T2</td><td>T3</td></tr><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></table>		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%																																												
I/P : 230VAC O/P : DIMMING TEST TA : 25℃ TEST RESULT : OK																																															

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℃	70V~305V																																								
			I/P: (1)LOW-LINE-3V=87 V HIGH-LINE+10V=315 V O/P:FULL/MIN LOAD (PLEASE CHECK DERATING CURVE) ON: 30 <u>Sec</u> . OFF: 30 Sec 10MIN (POWER ON/OFF NO DAMAGE) (2) I/P:230Vac ON: 0.5 <u>Sec</u> . OFF: 0.5 Sec 20MIN	(1).TEST:OK (2).TEST :OK																																								
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P: 110 VAC ~305VAC O/P:FULL~MIN LOAD Ta:25℃	OK																																								
3	INPUT CURRENT (TYP)	277VAC/1.1 A 230 VAC/ 1.3 A 115 VAC/ 2.5 A	I/P: 277VAC/230 VAC/115 VAC O/P:FULL LOAD Ta:25℃	I= 1.01A/277VAC I = 1.2 A/ 230VAC I = 2.45A/ 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℃	PF=0.9842 /230V/100%LOAD PF=0.9971/115V/100%LOAD PF=0.9531 /277V/100%LOAD																																								
				<div><p>P.F vs LOAD</p><table><caption>P.F vs LOAD Data (Estimated from Graph)</caption><thead><tr><th>Load (%)</th><th>230V P.F</th><th>115V P.F</th><th>277V P.F</th></tr></thead><tbody><tr><td>10%</td><td>0.58</td><td>0.90</td><td>0.40</td></tr><tr><td>20%</td><td>0.78</td><td>0.95</td><td>0.60</td></tr><tr><td>30%</td><td>0.88</td><td>0.97</td><td>0.72</td></tr><tr><td>40%</td><td>0.92</td><td>0.98</td><td>0.80</td></tr><tr><td>50%</td><td>0.95</td><td>0.99</td><td>0.85</td></tr><tr><td>60%</td><td>0.96</td><td>0.99</td><td>0.88</td></tr><tr><td>70%</td><td>0.97</td><td>0.99</td><td>0.90</td></tr><tr><td>80%</td><td>0.98</td><td>0.99</td><td>0.92</td></tr><tr><td>90%</td><td>0.98</td><td>0.99</td><td>0.94</td></tr><tr><td>100%</td><td>0.99</td><td>0.99</td><td>0.95</td></tr></tbody></table></div>	Load (%)	230V P.F	115V P.F	277V P.F	10%	0.58	0.90	0.40	20%	0.78	0.95	0.60	30%	0.88	0.97	0.72	40%	0.92	0.98	0.80	50%	0.95	0.99	0.85	60%	0.96	0.99	0.88	70%	0.97	0.99	0.90	80%	0.98	0.99	0.92	90%	0.98	0.99	0.94
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5	EFFICIENCY (TYP)	93.5%	I/P: 230 VAC O/P:FULL LOAD Ta:25℃	93.64 %																																								
			EFFICIENCY vs LOAD																																									

				
6	TOTAL HARMONIC DISTORTION	<p>Total harmonic distortion will be lower than 20% when output loading is 50% or higher at 230VAC / 115VAC</p> <p>Total harmonic distortion will be lower than 20% when output loading is 75% or higher at 277VAC</p>	<p>I/P : 230VAC I/P : 115VAC O/P : 50% LOAD Ta : 25°C</p> <p>I/P : 277VAC O/P : 75% LOAD Ta : 25°C</p>	<p>THD : 7.066 % THD : 6.536 %</p> <p>THD : 6.714 %</p>
			<p>THD&LOAD</p> 	
7	INRUSH CURRENT (TYP)	<p>230 V/ 75A COLD START</p> <p>(twidh=700 us measured at 50% Ipeak) COLD START</p>	<p>I/P: 230 VAC O/P:FULL LOAD Ta:25°C</p>	<p>I = 61.7 A/ 230VAC</p> <p>T50= 584 us</p>
			<p>INPUT=230VAC/50HZ @ FULL LOAD CH2 : AC Input Voltage CH4 : Input current (1V=1A)</p> 	

ROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER VOLTAGE PROTECTION	V1: 375 V~ 410 V	I/P: 305VAC I/P: 230VAC I/P: 90VAC O/P: MIN LOAD Ta: 25°C	389.93V/ 305VAC 391.64V/ 230VAC 391.21V/ 90VAC PROTECTION TYPE : Shut down and latch off o/p voltage, re-power on to recover
2	OVER TEMPERATURE PROTECTION	SPEC: PROTECTION TYPE : Shut down o/p voltage, recovers automatically after temperature goes down	I/P: 305 VAC I/P: 90 VAC O/P: FULL LOAD	O.T.P. Active PROTECTION TYPE : Shut down o/p voltage, recovers automatically after temperature goes down
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	P.F.C Transistor (D to S) or (C to E) Peak Voltage	Q1 Rated 600V/19A	I/P: High-Line +3V = 308V AC ON/OFF VDS: O/P: (1) Full Load (2) Output Short (3) FULL LOAD CONTINUE I/P: Low-Line -3V = 107V AC ON/OFF VDS O/P: (1) Full Load (2) Output Short (3) FULL LOAD CONTINUE Ta: 25°C	VDS: (1) 510V (2) 454V (3) 494V VDS: (1) 510V (2) 438V (3) 506V
2	PWM Transistor (D to S) or (C to E) Peak Voltage	Q3 Rated 20A/600V	I/P: High-Line +3V = 308V AC ON/OFF VDS: O/P: (1) Full Load (2) Output Short (3) FULL LOAD CONTINUE I/P: Low-Line -3V = 107V AC ON/OFF VDS O/P: (1) Full Load (2) Output Short (3) FULL LOAD CONTINUE Ta: 25°C	VDS: (1) 458V (2) 498V (3) 452V VDS: (1) 452V (2) 484V (3) 446V

3	Diode Peak Voltage	<p>D101 Rated 3A/600V</p> <p>D102 Rated 4A/600V</p>	<p>I/P:High-Line +3V = 308 V AC ON/OFF VDS: O/P: (1)Full Load (2)Output Short (3)FULL LOAD CONTINUE</p> <p>VDS: (1)Full Load (2)Output Short (3)FULL LOAD CONTINUE</p> <p>Ta:25°C</p>	<p>D101: VDS: (1)370V (2)8V (3)368V</p> <p>D102: VDS: (1)372V (2)8V (3)370V</p>
4	Input Capacitor Voltage	<p>C5 Rated: 150u/450V SURGE POWER :495V</p>	<p>I/P:High-Line +3V =308 V O/P: (1)Full Load input on/off (2) Min load input on /Off (3)Full Load /Min load Change</p> <p>Ta:25°C</p>	<p>(1)448V (2)454V (3)448V</p>
5	Control IC Voltage Test	<p>PWM IC U70 Rated 8.85V~16V</p>	<p>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. (5)NO LOAD (LOW LINE)</p> <p>Ta:25°C</p>	<p>(1) 15.3V (2) 14.7V (3) 14.7V (4) 15.3V (5) 15.3V</p>

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: 2.4 KVAC/min O/P-FG: 1.8 KVAC/min Ta:25°C	I/P-O/P: 3.93mA I/P-FG: 4.20 mA O/P-FG:3.33 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: 23.7GΩ I/P-FG: 11.1G 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	30 mΩ
4	LEAKAGE CURRENT	IEC60950-1 < 0.75mA / 277VAC	I/P: 277 VAC O/P:Min LOAD Ta:25°C	L-FG:0.32mA N-FG:0.32 mA

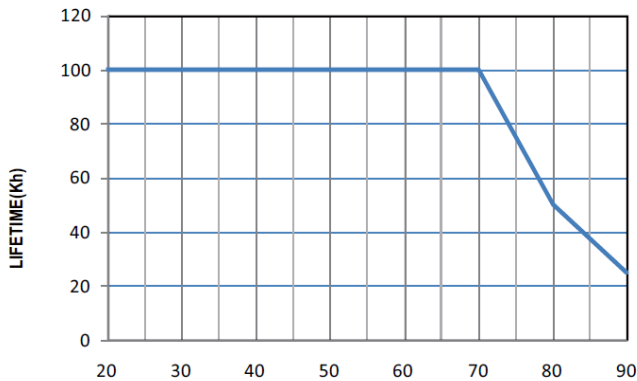
E.M.C TEST

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 LIGHT 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			

■ RELIABILITY TEST

ENVIRONMENT TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT																																																																																				
1	TEMPERATURE RISE TEST	<div>MODEL : HLG-240H-C700</div> <div>1. ROOM AMBIENT BURN-IN : 3 HRS</div> <div>I/P : 230VAC O/P : FULL LOAD Ta= 29.2 °C</div> <div>2. HIGH AMBIENT BURN-IN : 6 HRS</div> <div>I/P : 230VAC O/P : FULL LOAD Ta= 55.7 °C</div> <table><tr><th>NO</th><th>Position</th><th>ROOM AMBIENT</th><th>HIGH AMBIENT</th></tr><tr><td>1</td><td>BD1</td><td>65.7°C</td><td>89.0°C</td></tr><tr><td>2</td><td>C14</td><td>62.6°C</td><td>86.3°C</td></tr><tr><td>3</td><td>LF2</td><td>61.6°C</td><td>84.8°C</td></tr><tr><td>4</td><td>Q1</td><td>64.7°C</td><td>88.6°C</td></tr><tr><td>5</td><td>D3</td><td>63.9°C</td><td>87.7°C</td></tr><tr><td>6</td><td>L2</td><td>62.2°C</td><td>85.9°C</td></tr><tr><td>7</td><td>L1</td><td>63.5°C</td><td>88.6°C</td></tr><tr><td>8</td><td>D2</td><td>63.9°C</td><td>87.7°C</td></tr><tr><td>9</td><td>TSW1</td><td>62.2°C</td><td>85.9°C</td></tr><tr><td>10</td><td>Q4</td><td>63.6°C</td><td>87.4°C</td></tr><tr><td>11</td><td>C5</td><td>61.6°C</td><td>84.9°C</td></tr><tr><td>12</td><td>C35</td><td>63.9°C</td><td>86.9°C</td></tr><tr><td>13</td><td>C37</td><td>63.9°C</td><td>86.9°C</td></tr><tr><td>14</td><td>D102</td><td>63.9°C</td><td>87.5°C</td></tr><tr><td>15</td><td>T1</td><td>81.1°C</td><td>101.8°C</td></tr><tr><td>16</td><td>C201</td><td>61.3°C</td><td>85.2°C</td></tr><tr><td>17</td><td>C102</td><td>60.2°C</td><td>83.9°C</td></tr><tr><td>18</td><td>U1</td><td>61.3°C</td><td>84.9°C</td></tr><tr><td>19</td><td>D101</td><td>71.9°C</td><td>96.6°C</td></tr><tr><td>20</td><td>U201</td><td>63.5°C</td><td>88.0°C</td></tr></table>			NO	Position	ROOM AMBIENT	HIGH AMBIENT	1	BD1	65.7°C	89.0°C	2	C14	62.6°C	86.3°C	3	LF2	61.6°C	84.8°C	4	Q1	64.7°C	88.6°C	5	D3	63.9°C	87.7°C	6	L2	62.2°C	85.9°C	7	L1	63.5°C	88.6°C	8	D2	63.9°C	87.7°C	9	TSW1	62.2°C	85.9°C	10	Q4	63.6°C	87.4°C	11	C5	61.6°C	84.9°C	12	C35	63.9°C	86.9°C	13	C37	63.9°C	86.9°C	14	D102	63.9°C	87.5°C	15	T1	81.1°C	101.8°C	16	C201	61.3°C	85.2°C	17	C102	60.2°C	83.9°C	18	U1	61.3°C	84.9°C	19	D101	71.9°C	96.6°C	20	U201	63.5°C	88.0°C
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	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 305VAC/110VAC O/P : 100 % LOAD Ta= -40°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 : 305 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	± 0.011 %/°C (0~60°C)																																																																																				
6	STORAGE TEMPERATURE TEST	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																																																																																				

7	THERMAL SHOCK TEST	1. Thermal shock Temperature : $-45^{\circ}\text{C} \sim +65^{\circ}\text{C}$ 2. Temperature change rate : $25^{\circ}\text{C} / \text{MIN}$ 3. Dwell time low and high temperature : 30 MIN/EACH 4. Total test cycle : 10 CYCLE 5. Input/Output condition : 230VAC/Full Load AC ON/OFF TEST turn on 58sec ; turn off 2sec	OK
8	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
9	CAPACITOR LIFE CYCLE	HLG-240H-C700:SUPPOSE C102 IS THE MOST CRITICAL COMPONENT (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	(1) 437150 HRS (2) 43773 HRS (3) 69572 HRS (4) 78588 HRS
10	MTBF	Conducted by Parts Stress Analysis Prediction 180K 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 	

12.10.30 A50-F031

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