



# Test Report: HVGC-240-700

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240W 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

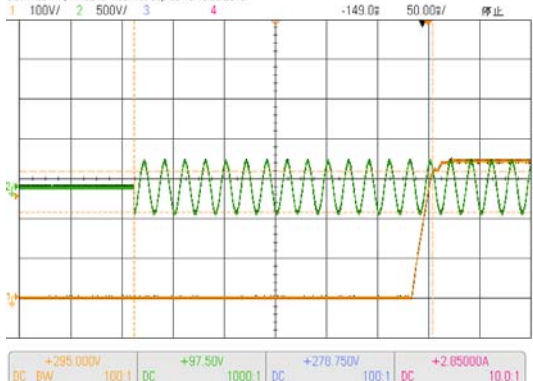
### OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	CURRENT ACCURACY	±5%	I/P: 347VAC I/P: 480VAC O/P: FULL LOAD Ta: 25°C	0.7049A / 347VAC @ CV MAX-1V 0.7021A / 347VAC @ CV MIN 0.7046A / 480VAC @ CV MAX-1V 0.7022A / 480VAC @ CV MIN 0.47%
2	CONSTANT CURRENT REGION	CH1: 171.4 V ~ 342.8 V	I/P: 347VAC O/P: FULL LOAD Ta: 25°C	19.416V ~ 342.8V / 347VAC
3	CURRENT ADJ. RANGE	CH1: 305mA ~ 700mA	I/P: 347VAC I/P: 480VAC O/P: CV MIN & CV MAX-1V Ta: 25°C	0.298A ~ 0.763A / 347VAC @ CV MAX-1V 0.595A ~ 7.668 A / 347VAC @ CV MIN 0.298A ~ 0.764A / 480VAC @ CV MAX-1V 0.5972A ~ 0.7668 A / 480VAC @ CV MIN
4	OPEN CIRCUIT VOLTAGE (max.)	354V	I/P: 347VAC O/P: NO LOAD Ta: 25°C	347.4V
5	CURRENT RIPPLE	5.0% max. @ rated current	I/P: 347VAC O/P: FULL LOAD Ta: 25°C	3.86%
6	OVER/UNDERSHOOT TEST	< ±5%	I/P: 347 VAC O/P: FULL LOAD Ta: 25°C	TEST: < 5%
7	SET UP TIME	230VAC / 500 ms (Max) 347VAC / 500 ms (Max) 480VAC / 500 ms (Max)	I/P: 230VAC I/P: 347VAC I/P: 480VAC O/P: FULL LOAD Ta: 25°C	230VAC / 292 ms 347VAC / 273 ms 480VAC / 272 ms

INPUT=230VAC/50HZ @ FULL LOAD

CH1 : Output Voltage CH2 : AC Input Voltage

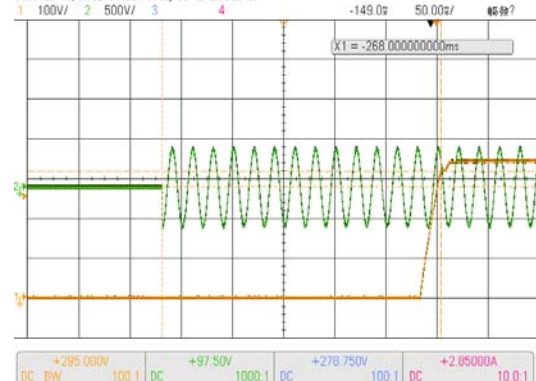
DS9X3014A, M152161490 Tue Sep 08 18:48:58 2015



INPUT=347VAC/60HZ @ FULL LOAD

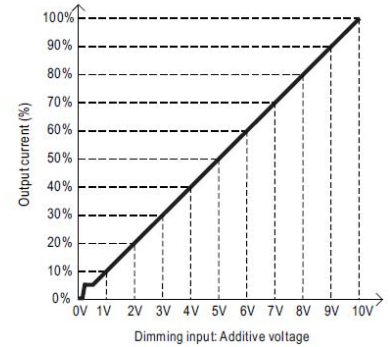
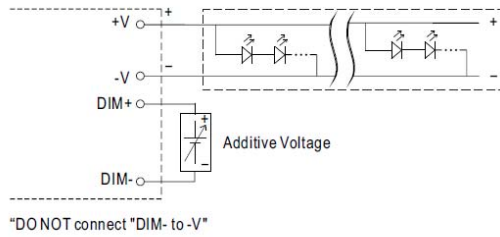
CH1 : Output Voltage CH2 : AC Input Voltage

DS9X3014A, M152161490 Tue Sep 08 18:49:19 2015

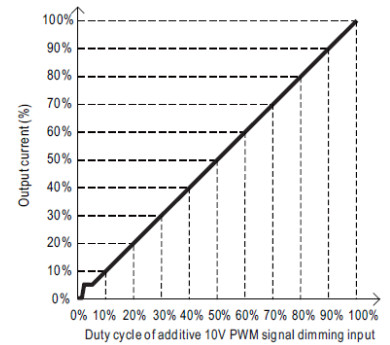
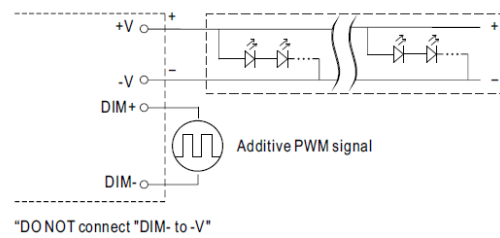


8	DIMMING OPERATION (for B-Type)	<p>※3 in 1 dimming function</p> <p>※Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 10VDC, or 10V PWM signal or resistance.</p> <p>※Direct connecting to LEDs is suggested. It is not suitable to be used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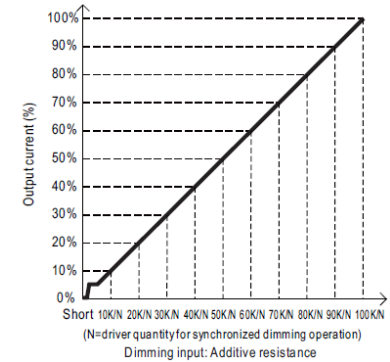
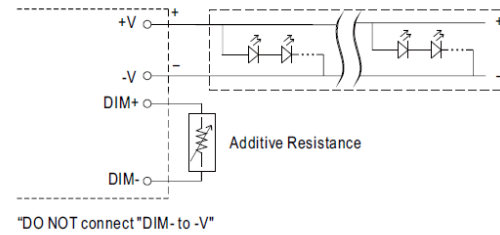
Ⓞ Applying additive 0 ~ 10VDC



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



Ⓞ Applying additive resistance:



- Note : 1. Min. dimming level is about 5% and the output current is not defined when  $0% < I_{out} < 5%$ .  
 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 : 347VAC  
 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	0.076A	0.144A	0.216A	0.279A	0.345A	0.410A	0.477A	0.541A	0.606A	0.666A	0.733A
%	0.00%	10.87%	20.60%	30.86%	39.79%	49.23%	58.59%	68.14%	77.24%	86.54%	95.16%	104.76%
V	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
O/P CURRENT	0.00000A	0.077A	0.147A	0.218A	0.286A	0.355A	0.426A	0.496A	0.564A	0.632A	0.703A	0.733A
%	0.00%	11.03%	20.94%	31.16%	40.79%	50.71%	60.79%	70.79%	80.60%	90.30%	100.37%	104.76%
PWM (100HZ)	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
O/P CURRENT	0.00000A	0.067A	0.139A	0.211A	0.281A	0.351A	0.420A	0.489A	0.558A	0.627A	0.697A	0.733A
%	0.00%	9.50%	19.86%	30.09%	40.17%	50.16%	60.00%	69.86%	79.74%	89.60%	99.54%	104.76%

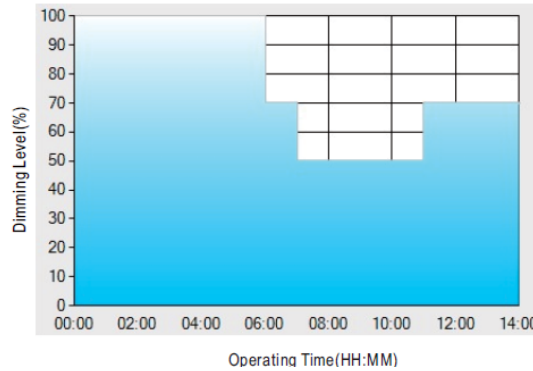
TEST RESULT : OK

**9 DIMMING OPERATION  
(for Dxx-Type by User definition)**

※**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.

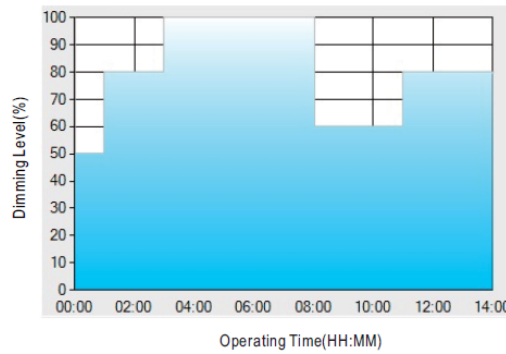
Ex: Ⓒ D01-Type: the profile recommended for residential lighting



Set up for D01-Type in Smart timer dimming software program:

	T1	T2	T3	T4
TIME**	06:00	07:00	11:00	--
LEVEL**	100%	70%	50%	70%

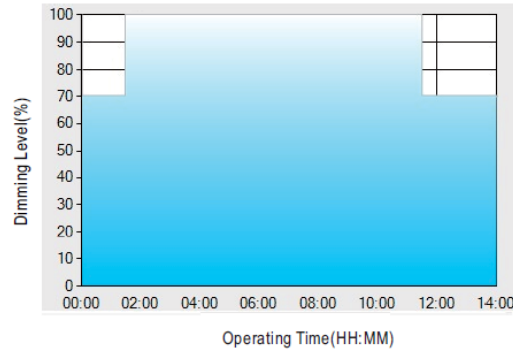
Ex: Ⓒ D02-Type: the profile recommended for street lighting



Set up for D02-Type in Smart timer dimming software program:

	T1	T2	T3	T4	T5
TIME**	01:00	03:00	8:00	11:00	--
LEVEL**	50%	80%	100%	60%	80%

Ex: Ⓒ D03-Type: the profile recommended for tunnel lighting



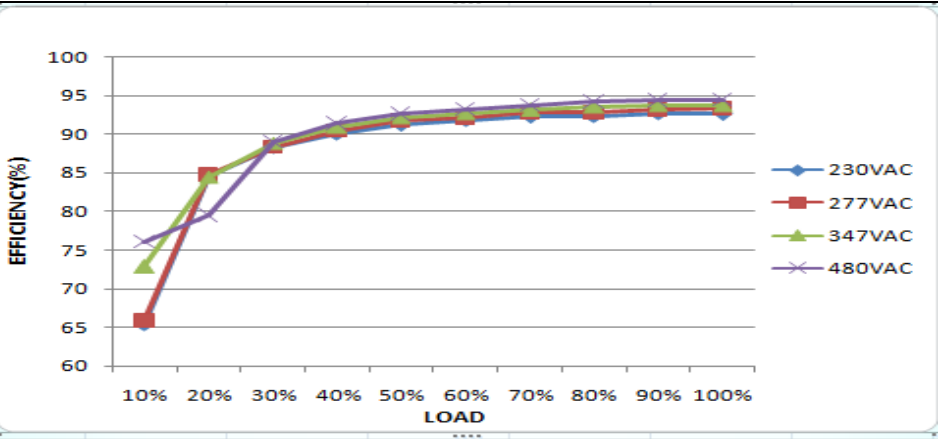
Set up for D03-Type in Smart timer dimming software program:

	T1	T2	T3
TIME**	01:30	11:00	---
LEVEL**	70%	100%	70%

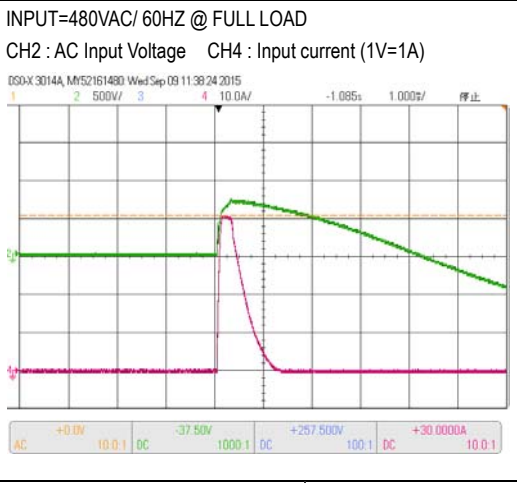
I/P : 347VAC  
O/P : DIMMING TEST  
TA : 25°C  
TEST RESULT : OK

## INPUT FUNCTION TEST

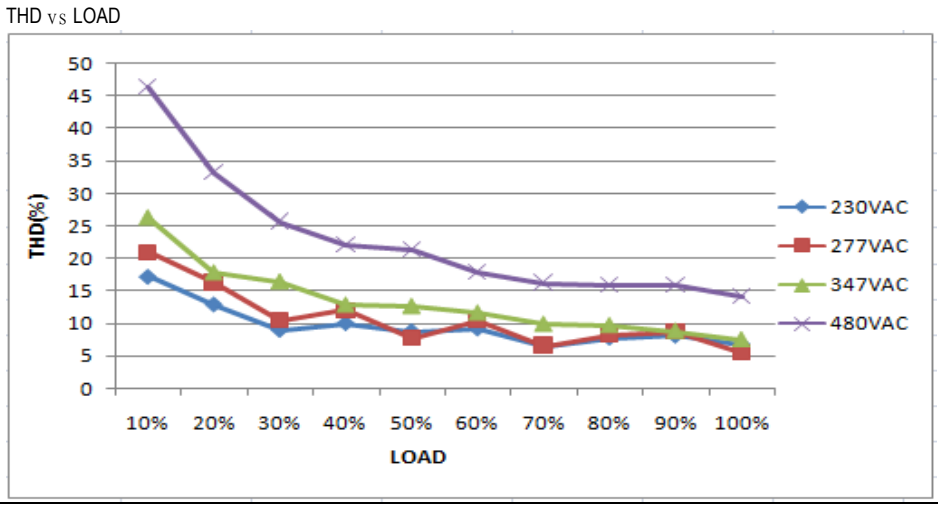
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT																																																			
1	INPUT VOLTAGE RANGE	180VAC~528 VAC	I/P:TESTING O/P:FULL LOAD Ta:25°C	137V~528 V																																																			
			I/P: LOW-LINE-3V=177 V HIGH-LINE+10V=538 V O/P:FULL/MIN LOAD (PLEASE 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: 180 VAC ~528VAC O/P:FULL~MIN LOAD Ta:25°C	OK																																																			
3	INPUT CURRENT (TYP)	347VAC/ 0.76 A 480VAC/ 0.56A	I/P: 347VAC/480VAC O/P:FULL LOAD Ta:25°C	I = 0.742 A/ 347VAC I = 0.539A/ 480VAC																																																			
4	POWER FACTOR(TYP)	0.95/347VAC FULL LOAD 0.93/480VAC FULL LOAD 0.97/277 VAC FULL LOAD 0.98/230 VAC FULL LOAD	I/P: 347VAC/480VAC/277VAC/230VAC O/P:FULL LOAD Ta:25°C	PF= 0.991 /347V/100%LOAD PF= 0.972 /480V/100%LOAD PF= 0.992 /277V/100%LOAD PF= 0.993 /230V/100%LOAD																																																			
				<table border="1"> <caption>Power Factor (PF) vs Load (%) Data</caption> <thead> <tr> <th>Load (%)</th> <th>230VAC</th> <th>277VAC</th> <th>347VAC</th> <th>480VAC</th> </tr> </thead> <tbody> <tr><td>10%</td><td>0.90</td><td>0.84</td><td>0.71</td><td>0.53</td></tr> <tr><td>20%</td><td>0.94</td><td>0.92</td><td>0.85</td><td>0.70</td></tr> <tr><td>30%</td><td>0.96</td><td>0.95</td><td>0.92</td><td>0.80</td></tr> <tr><td>40%</td><td>0.97</td><td>0.96</td><td>0.94</td><td>0.86</td></tr> <tr><td>50%</td><td>0.98</td><td>0.97</td><td>0.95</td><td>0.90</td></tr> <tr><td>60%</td><td>0.98</td><td>0.97</td><td>0.96</td><td>0.93</td></tr> <tr><td>70%</td><td>0.98</td><td>0.97</td><td>0.96</td><td>0.94</td></tr> <tr><td>80%</td><td>0.98</td><td>0.97</td><td>0.96</td><td>0.95</td></tr> <tr><td>90%</td><td>0.98</td><td>0.97</td><td>0.96</td><td>0.95</td></tr> <tr><td>100%</td><td>0.98</td><td>0.97</td><td>0.96</td><td>0.95</td></tr> </tbody> </table>	Load (%)	230VAC	277VAC	347VAC	480VAC	10%	0.90	0.84	0.71	0.53	20%	0.94	0.92	0.85	0.70	30%	0.96	0.95	0.92	0.80	40%	0.97	0.96	0.94	0.86	50%	0.98	0.97	0.95	0.90	60%	0.98	0.97	0.96	0.93	70%	0.98	0.97	0.96	0.94	80%	0.98	0.97	0.96	0.95	90%	0.98	0.97	0.96	0.95	100%
Load (%)	230VAC	277VAC	347VAC	480VAC																																																			
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5	EFFICIENCY (TYP)	93.5 %	I/P: 347VAC O/P:FULL LOAD Ta:25°C	93.69%																																																			



6	INRUSH CURRENT (TYP)	480V/ 50 A COLD START	I/P:480VAC O/P:FULL LOAD Ta:25°C	I=40.9A/ 480VAC
		(twidth= 532 us measured at 50% Ipeak) COLD START		T50= 520 us



7	TOTAL HARMONIC DISTORTION	Total harmonic distortion will be lower than 20% when output loading is 50% or higher at 230V/277V/347V/480V	I/P : 230V/277V/347V O/P : 100% LOAD 50% LOAD I/P : 480V O/P : 60% LOAD Ta : 25°C	THD : 12.73%/230V 50% THD : 9.42%/230V 100% THD : 13.33%/277V 50% THD : 10.03%/277V 100% THD : 10.42%/347V 50% THD : 6.17%/347V 100% THD : 16.56 %/480V60% THD : 14.78%480V 100%



## ROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
2	OVER VOLTAGE PROTECTION	V1: 360 V~ 394 V	I/P: 528VAC I/P: 347VAC I/P: 180VAC O/P:MIN LOAD Ta:25°C	371.71V/ 528VAC 371.81V/ 347VAC 371.6V/ 180VAC PROTECTION TYPE : Shut down o/p voltage with re-power on to recovery
3	OVER TEMPERATURE PROTECTION	PROTECTION TYPE : Shut down and latch off o/p voltage, re-power on to recover	I/P: 528 VAC I/P: 180 VAC O/P:FULL LOAD	O.T.P.Active PROTECTION TYPE : Shut down and latch off o/p voltage, re-power on to recover
4	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P: 528VAC I/P: 180 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	Q901Rated 9A/ 950V	I/P:High-Line +3V =531V AC ON/OFF VDS: O/P: (1)Full Load (2)Output Short (3) Full Load continue	VDS: (1)871V/8.48A (2)798V/7.52A (3)871V/3.28A
2	P.F.C Transistor ( D to S) or (C to E) Peak Voltage	Q 1 Rated 6A/1050V	I/P:High-Line +3V =531V AC ON/OFF VDS: O/P: (1)Full Load (2)Output Short (3) Full Load continue	VDS: (1)894V/4.04A (2)814V/3.84A (3)846V/3.84A
3	Diode Peak Voltage	D103 Rated 20A/600V  D104 Rated 4A/600V	I/P:High-Line +3V =531 V D101 : AC ON/OFF O/P: (1)Full Load (2)Output Short (3) Full Load continue D104 : AC ON/OFF O/P: (1)Full Load (2)Output Short (3) Full Load continue Ta:25°C	D103 VDS: (1)357V (2)13.9V (3)353V  VDS: (1)357V (2)17V (3)352V
4	Input Capacitor Voltage	C6 Rated: 82u/450V 105°C	I/P:High-Line +3V =531V O/P: (1)Full Load input on/off (2) Min load input on /Off (3)Full Load /Min load Change	(1)416V (2)453V (3)416V (4) 404V

			(4)Full load continue Ta:25°C	
5	Control IC Voltage Test	PWM IC U901 Rated 8.85V~16V	I/P:High-Line +3V =531 V AC ON/OFF O/P(1)FULL LOAD (2) Output Short (3)O.L.P (4)O.V.P. Ta:25°C	(1) 14.42V (2) 14.1V (3) 13.7V (4) 14.5V

## 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: 1.6 mA I/P-FG: 1.01 mA O/P-FG: 0.645 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: 30GΩ I/P-FG: 14.2G 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	21 mΩ
4	LEAKAGE CURRENT	IEC60950-1 < 0.75mA / 480VAC	I/P: 480VAC O/P:Min LOAD Ta:25°C	L-FG: 0.16 mA N-FG: 0.16 mA L,N -V(+): 0.17 mA L,N-V(-): 0.18 mA

### E.M.C TEST

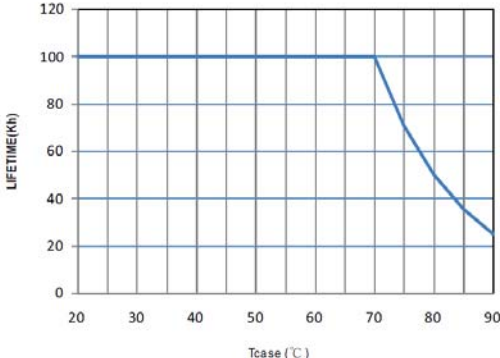
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	CONDUCTION	FCC Part 15 Subpart B	I/P: 440VAC (60HZ) O/P:FULL/30% LOAD Ta:25°C	PASS Test by certified Lab
2	RADIATION	FCC Part 15 Subpart B	I/P: 480VAC (60HZ) O/P:FULL/50% LOAD Ta:25°C	PASS Test by certified Lab
3	E.S.D	EN61000-4-2 LIGHT INDUSTRY AIR:8KV / Contact:4KV	I/P: 230VAC/50HZ O/P:FULL LOAD Ta:25°C	CRITERIA A
4	E.F.T	EN61000-4-4 LIGHT INDUSTRY INPUT: 1KV	I/P: 230VAC/50HZ O/P:FULL LOAD Ta:25°C	CRITERIA A
5	SURGE	IEC61000-4-5 INDUSTRY L-N :2KV L,N-PE:4KV	I/P: 230VAC/50HZ O/P:FULL LOAD Ta:25°C	CRITERIA A
6	Test by certified Lab & Test Report Prepare			



## ■ RELIABILITY TEST

### ENVIRONMENT TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT																																																																																																				
1	TEMPERATURE RISE TEST	MODEL : HVGC-240-700 1. ROOM AMBIENT BURN-IN : 15 HRS I/P : 347VAC O/P : FULL LOAD Ta= 25.5 °C 2. HIGH AMBIENT BURN-IN : 3.5 HRS I/P : 347VAC O/P : FULL LOAD Ta= 56.3 °C																																																																																																						
		<table border="1"> <thead> <tr> <th>CH.</th> <th>Position</th> <th>ROOM AMBIENT Ta= 25.5 °C</th> <th>HIGH AMBIENT Ta= 56.3 °C</th> </tr> </thead> <tbody> <tr><td>1</td><td>C1</td><td>62.2°C</td><td>92.2°C</td></tr> <tr><td>2</td><td>BD1</td><td>65.4°C</td><td>95.7°C</td></tr> <tr><td>3</td><td>L2</td><td>65.1°C</td><td>95.4°C</td></tr> <tr><td>4</td><td>C10</td><td>65.1°C</td><td>95.4°C</td></tr> <tr><td>5</td><td>C11</td><td>69.8°C</td><td>97.0°C</td></tr> <tr><td>6</td><td>Q2</td><td>67.3°C</td><td>97.9°C</td></tr> <tr><td>7</td><td>RTH2</td><td>76.4°C</td><td>103.5°C</td></tr> <tr><td>8</td><td>Q901</td><td>69.0°C</td><td>100.1°C</td></tr> <tr><td>9</td><td>T2</td><td>62.3°C</td><td>94.1°C</td></tr> <tr><td>10</td><td>L1</td><td>67.3°C</td><td>98.4°C</td></tr> <tr><td>11</td><td>C5</td><td>66.0°C</td><td>96.9°C</td></tr> <tr><td>12</td><td>ZNR1</td><td>60.1°C</td><td>89.7°C</td></tr> <tr><td>13</td><td>Q35</td><td>65.7°C</td><td>97.6°C</td></tr> <tr><td>14</td><td>C46</td><td>64.7°C</td><td>96.8°C</td></tr> <tr><td>15</td><td>C54</td><td>67.0°C</td><td>98.5°C</td></tr> <tr><td>16</td><td>RTH3</td><td>63.0°C</td><td>94.7°C</td></tr> <tr><td>17</td><td>U1</td><td>63.2°C</td><td>94.2°C</td></tr> <tr><td>18</td><td>U901</td><td>63.6°C</td><td>95.3°C</td></tr> <tr><td>19</td><td>T1</td><td>66.3°C</td><td>98.5°C</td></tr> <tr><td>20</td><td>D103</td><td>62.6°C</td><td>93.0°C</td></tr> <tr><td>21</td><td>D104</td><td>63.7°C</td><td>94.2°C</td></tr> <tr><td>22</td><td>C106</td><td>61.1°C</td><td>91.6°C</td></tr> <tr><td>23</td><td>C201</td><td>61.2°C</td><td>91.9°C</td></tr> <tr><td>24</td><td>LF100</td><td>61.2°C</td><td>91.8°C</td></tr> </tbody> </table>	CH.	Position	ROOM AMBIENT Ta= 25.5 °C	HIGH AMBIENT Ta= 56.3 °C	1	C1	62.2°C	92.2°C	2	BD1	65.4°C	95.7°C	3	L2	65.1°C	95.4°C	4	C10	65.1°C	95.4°C	5	C11	69.8°C	97.0°C	6	Q2	67.3°C	97.9°C	7	RTH2	76.4°C	103.5°C	8	Q901	69.0°C	100.1°C	9	T2	62.3°C	94.1°C	10	L1	67.3°C	98.4°C	11	C5	66.0°C	96.9°C	12	ZNR1	60.1°C	89.7°C	13	Q35	65.7°C	97.6°C	14	C46	64.7°C	96.8°C	15	C54	67.0°C	98.5°C	16	RTH3	63.0°C	94.7°C	17	U1	63.2°C	94.2°C	18	U901	63.6°C	95.3°C	19	T1	66.3°C	98.5°C	20	D103	62.6°C	93.0°C	21	D104	63.7°C	94.2°C	22	C106	61.1°C	91.6°C	23	C201	61.2°C	91.9°C	24	LF100	61.2°C	91.8°C		
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2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 528VAC/180VAC 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 : 538VAC O/P : FULL LOAD Ta= 60 °C HUMIDITY= 95 %R.H	TEST : OK																																																																																																				
4	TEMPERATURE COEFFICIENT	± 0.03%/°C (0~60°C)	I/P : 347 VAC O/P : FULL LOAD	± 0.009 %/°C (0~60°C)																																																																																																				

5	STORAGE TEMPERATURE TEST	<ol style="list-style-type: none"> <li>1. Thermal shock Temperature : -50°C~ +125°C</li> <li>2. Temperature change rate : 25°C / MIN</li> <li>3. Dwell time low and high temperature : 30 MIN/EACH</li> <li>4. Total test cycle : 5 CYCLE</li> <li>5. Input/Output condition : STATIC</li> </ol>	OK
6	THERMAL SHOCK TEST	<ol style="list-style-type: none"> <li>1. Thermal shock Temperature : -45°C~ +65°C</li> <li>2. Temperature change rate : 25°C / MIN</li> <li>3. Dwell time low and high temperature : 30 MIN/EACH</li> <li>4. Total test cycle : 16 CYCLE</li> <li>5. Input/Output condition : 15cycle:230V/ FULL LOAD AC ON 3sec/AC OFF 1sec TEST 1cycle:230V/ FULL LOAD Burn In Test</li> </ol>	OK
7	VIBRATION TEST	1 Carton & 1 Set <ol style="list-style-type: none"> <li>(1) Waveform : Sine Wave</li> <li>(2) Frequency : 10~500Hz</li> <li>(3) Sweep Time : 12min/sweep cycle</li> <li>(4) Acceleration : 5G</li> <li>(5) Test Time : 70min in each axis (X.Y.Z)</li> <li>(6) Ta : 25°C</li> </ol>	TEST : OK
8	CAPACITOR LIFE CYCLE	SUPPOSE C106 IS THE MOST CRITICAL COMPONENT <ol style="list-style-type: none"> <li>(1) I/P : 347VAC O/P : FULL LOAD Ta= 25 °C LIFE TIME</li> <li>(2) I/P : 347VAC O/P : FULL LOAD Ta= 60 °C LIFE TIME</li> <li>(3) I/P : 347VAC O/P : 75% LOAD Ta= 60 °C LIFE TIME</li> <li>(4) I/P : 347VAC O/P : 50% LOAD Ta= 60 °C LIFE TIME</li> </ol>	<ol style="list-style-type: none"> <li>(1) 221268 HRS</li> <li>(2) 19976 HRS</li> <li>(3) 37783HRS</li> <li>(4) 43303HRS</li> </ol>
9	MTBF	Conducted by Parts Stress Analysis Prediction 143.6K hrs min. MIL-HDBK-217F (25°C)	
10	DMTBF/Accelerated Life Test	Demonstration Mean Time Between Failure(Expected Life) : 50,000 hours @ Tcase 80°C 	

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

12.10.30 A50-F031