



Test Report: HVGC-100-700

100W Constant Current Mode LED Driver

■ 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 : 347VAC O/P : CV MODE : 15V-141V Ta : 25°C	0.9%~-0.9%
2	CONSTANT CURRENT REGION	15V-142V	I/P : 347 VAC O/P : CV MODE Ta : 25°C	O/P=15V : 0.702A O/P=141V : 0.702A
3	OUTPUT CURRENT ADJUST RANGE	CH1 : 420mA~ 700m A	I/P : 480 VAC I/P : 347 VAC O/P : CV MODE : 141V Ta : 25°C	0.364 A- 0.769 A/ 480 VAC 0.363 A- 0.769 A/ 347 VAC
4	CURRENT RIPPLE	5.0% max. @rated current	I/P : 230VAC O/P : LED : 71V~142V Ta : 25°C	LED=71V 2.1 % LED=142V 1.6 %
5	SET UP TIME	480 VAC : 500 ms (Max) 347VAC : 500 ms(Max) 230VAC : 500 ms(Max)	I/P : 480 VAC I/P : 347 VAC I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	480 VAC/ 312 ms 347VAC/ 352 ms 230VAC/ 360 ms
6	OVER/UNDERSHOOT TEST	< ±5%	I/P : 347 VAC O/P : FULL LOAD Ta : 25°C	TEST : <5 %

7	<p>DIMMER TEST (B Type only) SPEC: ※Built-in 3 in 1 dimming function, IP67 rated. Output constant current level can be adjusted through output cable by connecting a resistance or 0 ~ 10Vdc or 10V PWM signal between DIM+ and DIM-. ※Please DO NOT connect "DIM-" to "-V". ※Reference resistance value for output current adjustment (Typical)</p> <table border="1"> <tr> <td>Resistance value</td> <td>10K</td> <td>20K</td> <td>30K</td> <td>40K</td> <td>50K</td> <td>60K</td> <td>70K</td> <td>80K</td> <td>90K</td> <td>100K</td> </tr> <tr> <td>Output current</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> </tr> </table> <p>*1 ~ 10V dimming function for output current adjustment (Typical)</p> <table border="1"> <tr> <td>Dimming value</td> <td>1V</td> <td>2V</td> <td>3V</td> <td>4V</td> <td>5V</td> <td>6V</td> <td>7V</td> <td>8V</td> <td>9V</td> <td>10V</td> </tr> <tr> <td>Output current</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> </tr> </table> <p>*10V PWM signal for output current adjustment (Typical)</p> <table border="1"> <tr> <td>Duty value</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> </tr> <tr> <td>Output current</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> </tr> </table> <p>TEST RESULT: I/P : 230 VAC ; Ta : 25°C</p> <table border="1"> <tr> <td rowspan="3">1</td> <td>Resistance value</td> <td>SHORT</td> <td>10K</td> <td>20K</td> <td>30K</td> <td>40K</td> <td>50K</td> <td>60K</td> <td>70K</td> <td>80K</td> <td>90K</td> <td>100K</td> <td>OPEN</td> </tr> <tr> <td>Output current</td> <td>0.000A</td> <td>0.085A</td> <td>0.152A</td> <td>0.221A</td> <td>0.289A</td> <td>0.359A</td> <td>0.432A</td> <td>0.492A</td> <td>0.561A</td> <td>0.636A</td> <td>0.704A</td> <td>0.729A</td> </tr> <tr> <td>%</td> <td>0.00%</td> <td>12.14%</td> <td>21.71%</td> <td>31.57%</td> <td>41.29%</td> <td>51.29%</td> <td>61.71%</td> <td>70.29%</td> <td>80.14%</td> <td>90.86%</td> <td>100.57%</td> <td>104.14%</td> </tr> <tr> <td rowspan="3">2</td> <td>Dimming value</td> <td>SHORT</td> <td>1V</td> <td>2V</td> <td>3V</td> <td>4V</td> <td>5V</td> <td>6V</td> <td>7V</td> <td>8V</td> <td>9V</td> <td>10V</td> <td>OPEN</td> </tr> <tr> <td>Output current</td> <td>0.000A</td> <td>0.086A</td> <td>0.156A</td> <td>0.223A</td> <td>0.292A</td> <td>0.361A</td> <td>0.430A</td> <td>0.499A</td> <td>0.568A</td> <td>0.635A</td> <td>0.703A</td> <td>0.729A</td> </tr> <tr> <td>%</td> <td>0.00%</td> <td>12.29%</td> <td>22.29%</td> <td>31.86%</td> <td>41.71%</td> <td>51.57%</td> <td>61.43%</td> <td>71.29%</td> <td>81.14%</td> <td>90.71%</td> <td>100.43%</td> <td>104.14%</td> </tr> <tr> <td rowspan="3">3</td> <td>Duty value</td> <td>SHORT</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>Output current</td> <td>0.000A</td> <td>0.090A</td> <td>0.159A</td> <td>0.227A</td> <td>0.296A</td> <td>0.365A</td> <td>0.433A</td> <td>0.503A</td> <td>0.571A</td> <td>0.641A</td> <td>0.708A</td> <td>0.729A</td> </tr> <tr> <td>%</td> <td>0.00%</td> <td>12.86%</td> <td>22.71%</td> <td>32.43%</td> <td>42.29%</td> <td>52.14%</td> <td>61.86%</td> <td>71.86%</td> <td>81.57%</td> <td>91.57%</td> <td>101.14%</td> <td>104.14%</td> </tr> </table>	Resistance value	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	Output current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	Output current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	Duty value	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	Output current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	1	Resistance value	SHORT	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	OPEN	Output current	0.000A	0.085A	0.152A	0.221A	0.289A	0.359A	0.432A	0.492A	0.561A	0.636A	0.704A	0.729A	%	0.00%	12.14%	21.71%	31.57%	41.29%	51.29%	61.71%	70.29%	80.14%	90.86%	100.57%	104.14%	2	Dimming value	SHORT	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN	Output current	0.000A	0.086A	0.156A	0.223A	0.292A	0.361A	0.430A	0.499A	0.568A	0.635A	0.703A	0.729A	%	0.00%	12.29%	22.29%	31.86%	41.71%	51.57%	61.43%	71.29%	81.14%	90.71%	100.43%	104.14%	3	Duty value	SHORT	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN	Output current	0.000A	0.090A	0.159A	0.227A	0.296A	0.365A	0.433A	0.503A	0.571A	0.641A	0.708A	0.729A	%	0.00%	12.86%	22.71%	32.43%	42.29%	52.14%	61.86%	71.86%	81.57%	91.57%	101.14%	104.14%
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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 I/P : LOW-LINE-3V=177V HIGH-LINE+3V=531 V O/P : FULL/MIN LOAD ON : 30 Sec . OFF : 30 Sec 10MIN (AC POWER ON/OFF NO DAMAGE)	159 V~528V TEST : OK
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P : 180VAC ~ 528 VAC O/P : FULL -MIN LOAD Ta : 25°C	TEST : OK
3	POWER FACTOR	0.98 / 230 VAC(TYP) 0.98 / 277VAC(TYP) 0.97 /347 VAC(TYP) 0.93 / 480 VAC(TYP)	I/P : 230VAC I/P : 277VAC I/P : 347VAC I/P : 480VAC O/P : FULL LOAD Ta : 25°C	PF= 0.995 / 230 VAC PF= 0.994 / 277 VAC PF= 0.981 / 347VAC PF= 0.950 / 480VAC

4	EFFICIENCY	91 % (TYP)	I/P : 347 VAC O/P : FULL LOAD Ta : 25°C	92.12 %
5	INPUT CURRENT	347V/ 0.38 A (TYP) 480V/ 0.28 A (TYP)	I/P : 347 VAC I/P : 480 VAC O/P : FULL LOAD Ta : 25°C	I = 0.316 A / 347 VAC I = 0.258 A / 480 VAC
6	INRUSH CURRENT	480V/ 25 A (TYP) (twidth=900μs measured at 50% Ipeak) at 480VAC; Per NEMA 410	I/P : 480VAC O/P : FULL LOAD Ta : 25°C	I = 20 A / 480VAC T50= 353 us
7	LEAKAGE CURRENT	< 0.75 mA / 480 VAC	I/P : 480 VAC O/P : Min LOAD Ta : 25°C	L-FG : 0.30 mA N-FG : 0.28 mA
8	TOTAL HARMONIC DISTORTION	Total harmonic distortion will be lower than 20% when output loading is 50% or higher at 230VAC / 277VAC / 347VAC	I/P : 230VAC I/P : 277VAC I/P : 347VAC O/P : 50% LOAD Ta : 25°C	THD : 12 THD : 13.5 THD : 16.7
		Total harmonic distortion will be lower than 20% when output loading is 75% or higher at 480VAC	I/P : 480VAC O/P : 75% LOAD Ta : 25°C	THD : 16.6

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER VOLTAGE PROTECTION	CH1 : 150V ~ 160 V	I/P : 480 VAC I/P : 347 VAC O/P : MIN LOAD Ta : 25°C	155.63 V / 480VAC 155.11 V / 347 VAC Shut down o/p voltage with auto-recovery or re-power on to recovery
2	OVER TEMPERATURE PROTECTION	SPEC : NO DAMAGE	I/P : 347 VAC O/P : FULL LOAD	O.T.P. Active Shut down o/p voltage, recovers automatically after temperature goes down
3	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P : 528 VAC O/P : FULL LOAD Ta : 25°C	NO DAMAGE Constant current limiting, recovers automatically after fault condition is removed

COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	Power Transistor (D to S) or (C to E) Peak Voltage	Q3 Rated : 9A/950V	I/P : High-Line +3V = 531 V O/P : (1) Full Load Turn on (2) Output Short (3) Full load continue Ta : 25°C	(1) 614 V (2) 413 V (3) 610 V
2	Diode Peak Voltage	D100 Rated : 5A/600V	I/P : High-Line +3V = 531 V	(1) 908 V

			O/P : (1)Full Load Turn on (2)Output Short (3)Full load continue Ta : 25°C	(2) 803 V (3) V
3	Input Capacitor Voltage	C5 Rated : 56u/400V	I/P : High-Line +3V = 531 V O/P : (1)Full Load Turn on /Off (2) Min load Turn on /Off (3)Full Load /Min load Change Ta : 25°C	(1) 414 V (2) 410 V (3) 414 V
4	Control IC Voltage Test	U1 Rated : 10.3V~22.5V	I/P : High-Line +3V = 531 V O/P : (1)Full Load Turn on /Off (2) Min load Turn on /Off (3)Full Load /Min load Change Ta : 25°C	(1) 17.221 V (2) 17.043 V (3) 17.043 V
5	Power Transistor (D to S) or (C to E) Peak Voltage	Q1 Rated : 9A/950V	I/P : High-Line +3V = 531 V O/P : (1)Full Load Turn on (2) Output Short (3)Full load continue Ta : 25°C	(1) 751 V (2) 791 V (3) 750 V

■ SAFETY & E.M.C. TEST

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-O/P : 3.75 KVAC/min I/P-FG : 2 KVAC/min O/P-FG : 1.5 KVAC/min	I/P-O/P : 4 KVAC/min I/P-FG : 2.4 KVAC/min O/P-FG : 1.8 KVAC/min Ta : 25°C	I/P-O/P : 3.15 mA I/P-FG : 2.146 mA O/P-FG : 3.41 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 /70%RH	I/P-O/P : 6.76 GΩ I/P-FG : 8.91 GΩ O/P-FG : 13.9 GΩ NO DAMAGE
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40 A / 2min Ta : 25°C / 70%RH	13 mΩ

E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	HARMONIC	EN61000-3-2 CLASS C	I/P:230/380VAC/50HZ O/P:100/50%ELECTRONIC LOAD O/P:100% LED LOAD Ta:25°C	PASS
2	CONDUCTION	EN55015 CLASS B FCC Part 15 Subpart B	I/P: 230/380VAC (50HZ/60HZ) O/P:FULL/50% LOAD Ta:25°C	PASS Test by certified Lab
3	RADIATION	EN55015 CLASS B FCC Part 15 Subpart B	I/P: 230/380 VAC(50HZ/60HZ) O/P:FULL LOAD/50% LOAD Ta:25°C	PASS Test by certified Lab

4	E.S.D	EN61000-4-2 LIGHT INDUSTRY AIR:8KV / Contact:4KV	I/P:230/380VAC/50HZ O/P:FULL LOAD Ta:25°C	CRITERIA A
5	E.F.T	EN61000-4-4 LIGHT INDUSTRY INPUT : 1KV	I/P: 230/380 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: 230/380 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 : HVGC-100-700 1. ROOM AMBIENT BURN-IN : 2.5 HRS I/P : 347VAC O/P : FULL LOAD Ta=32 °C 2. HIGH AMBIENT BURN-IN : 4 HRS I/P : 347VAC O/P : FULL LOAD Ta= 63 °C	<table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta= 32 °C</th> <th>HIGH AMBIENT Ta= 63 °C</th> </tr> </thead> <tbody> <tr><td>1</td><td>LF2</td><td>51.1°C</td><td>75.9°C</td></tr> <tr><td>2</td><td>BD1</td><td>51.8°C</td><td>76.4°C</td></tr> <tr><td>3</td><td>C46</td><td>51.6°C</td><td>76.8°C</td></tr> <tr><td>4</td><td>L1</td><td>52.8°C</td><td>77.6°C</td></tr> <tr><td>5</td><td>D2</td><td>58.3°C</td><td>84.7°C</td></tr> <tr><td>6</td><td>C5</td><td>55.7°C</td><td>80.3°C</td></tr> <tr><td>7</td><td>Q3</td><td>55.0°C</td><td>80.5°C</td></tr> <tr><td>8</td><td>T3</td><td>56.1°C</td><td>81.5°C</td></tr> <tr><td>9</td><td>T1</td><td>62.2°C</td><td>86.4°C</td></tr> <tr><td>10</td><td>C203</td><td>59.2°C</td><td>83.5°C</td></tr> <tr><td>11</td><td>RTH2</td><td>52.4°C</td><td>77.6°C</td></tr> <tr><td>12</td><td>C85</td><td>52.6°C</td><td>77.4°C</td></tr> <tr><td>13</td><td>U2</td><td>52.3°C</td><td>77.0°C</td></tr> <tr><td>14</td><td>C103</td><td>54.0°C</td><td>78.6°C</td></tr> <tr><td>15</td><td>C106</td><td>50.0°C</td><td>75.5°C</td></tr> <tr><td>16</td><td>LF100</td><td>51.3°C</td><td>76.4°C</td></tr> <tr><td>17</td><td>D100</td><td>59.2°C</td><td>83.9°C</td></tr> </tbody> </table>	NO	Position	ROOM AMBIENT Ta= 32 °C	HIGH AMBIENT Ta= 63 °C	1	LF2	51.1°C	75.9°C	2	BD1	51.8°C	76.4°C	3	C46	51.6°C	76.8°C	4	L1	52.8°C	77.6°C	5	D2	58.3°C	84.7°C	6	C5	55.7°C	80.3°C	7	Q3	55.0°C	80.5°C	8	T3	56.1°C	81.5°C	9	T1	62.2°C	86.4°C	10	C203	59.2°C	83.5°C	11	RTH2	52.4°C	77.6°C	12	C85	52.6°C	77.4°C	13	U2	52.3°C	77.0°C	14	C103	54.0°C	78.6°C	15	C106	50.0°C	75.5°C	16	LF100	51.3°C	76.4°C	17	D100	59.2°C	83.9°C	
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17	D100	59.2°C	83.9°C																																																																									
2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 528VAC/180VAC O/P : 100 % LOAD Ta= -40 °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 : 531 VAC O/P : FULL LOAD Ta= 60 °C HUMIDITY= 95 %R.H	TEST : OK																																																																								

4	TEMPERATURE COEFFICIENT	$\pm 0.03\%(0-50^{\circ}\text{C})$	I/P : 347 VAC O/P : FULL LOAD	$\pm 0.02\%(0-50^{\circ}\text{C})$
5	STORAGE TEMPERATURE TEST	1. Thermal shock Temperature : $-45^{\circ}\text{C} \sim +90^{\circ}\text{C}$ 2. Temperature change rate : $25^{\circ}\text{C} / \text{MIN}$ 3. Dwell time low and high temperature : 30 MIN/EACH 4. Total test cycle : 5 CYCLE 5. Input/Output condition : STATIC		OK
6	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 : 347VAC/Full Load AC ON/OFF TEST turn on 58sec ; turn off 2sec		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	HVGC-100-700:SUPPOSE C103 IS THE MOST CRITICAL COMPONENT (1) I/P : 347VAC O/P : FULL LOAD Tc= 80°C LIFE TIME (2) I/P : 347VAC O/P : 75% LOAD Tc= 80°C LIFE TIME (3) I/P : 347VAC O/P : 50% LOAD Tc= 80°C LIFE TIME		(1) 44601HRS (2) 53886HRS (3) 62775HRS
9	MTBF	Conducted by Parts Stress Analysis Prediction 186.1K 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 : 50,000 hours		

RESULT	TESTER	REVIEW	APPROVAL
PASS	DANIEL GAO	SANFORD SU	VINCENT TSENG

12.10.30 A50-F031