



Test Report: PWM-120-48

120W PWM Output LED Driver

■ DESIGN VERIFY TEST

Output Function Test

Input Function Test

Protection Function Test

Component Stress Test

■ SAFETY & E.M.C. TEST

Safety Test

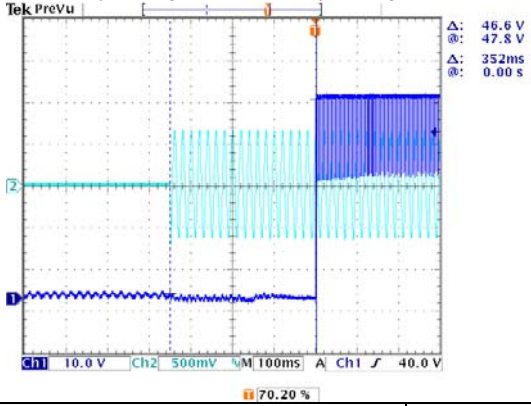
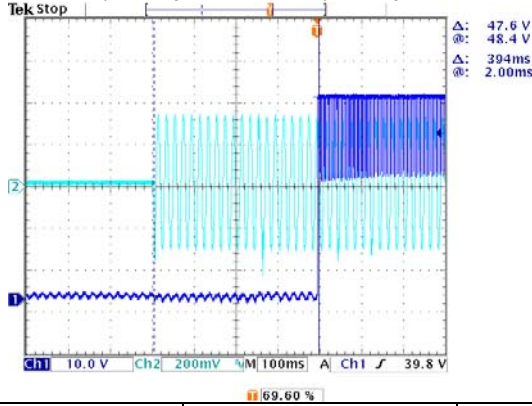
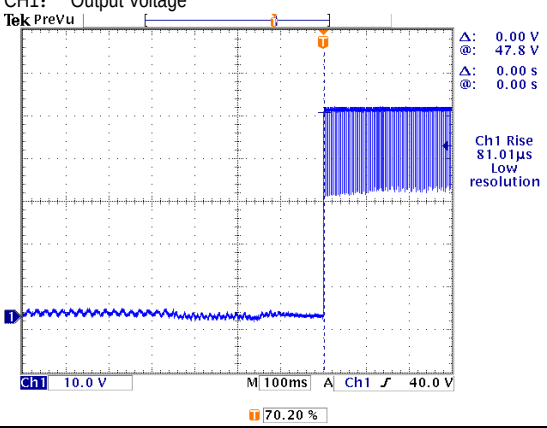
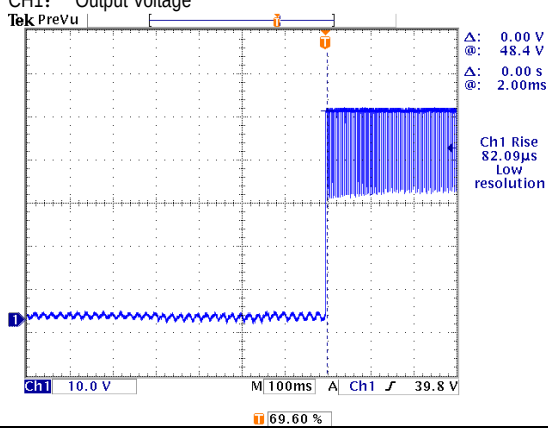
E.M.C. Test

■ RELIABILITY TEST

Environment Test

DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM FREQUENCY	1.47KHz	I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	1.47KHz
2	OVER/UNDERSHOOT TEST	<± 5 %	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	<5 %
3	SET UP TIME(Max)	230VAC/ 500ms 115VAC/ 500ms	I/P: 230 VAC I/P: 115 VAC O/P: FULL LOAD Ta: 25°C	230VAC/ 352ms 115VAC/ 394ms
INPUT=230VAC/50HZ @ FULL LOAD CH1: Output Voltage CH2: AC Input Voltage  Δ: 46.6 V @: 47.8 V Δ: 352ms @: 0.00 s 70.20 % INPUT=115VAC/60HZ @ FULL LOAD CH1: Output Voltage CH2: AC Input Voltage  Δ: 47.6 V @: 48.4 V Δ: 394ms @: 2.00ms 69.60 %				
4	RISE TIME (Max)	230VAC/ 80ms 115VAC/ 80ms	I/P: 230 VAC I/P: 115 VAC O/P: FULL LOAD Ta: 25°C	230VAC/0.081ms 115VAC/0.082ms
INPUT=230VAC/50HZ @ FULL LOAD CH1: Output Voltage  Δ: 0.00 V @: 47.8 V Δ: 0.00 s @: 0.00 s Ch1 Rise 81.01μs Low resolution 70.20 % INPUT=115VAC/60HZ @ FULL LOAD CH1: Output Voltage  Δ: 0.00 V @: 48.4 V Δ: 0.00 s @: 2.00ms Ch1 Rise 82.09μs Low resolution 69.60 %				
5	HOLD UP TIME(Typ)	230VAC/ 16ms 115VAC/ 16ms	I/P: 230 VAC I/P: 115 VAC O/P: FULL LOAD Ta: 25°C	230VAC/21.2ms 115VAC/20.8ms

INPUT=230VAC/50HZ @ FULL LOAD

CH1: Output Voltage

CH2: AC Input Voltage

5.60 V

42.8 V

21.2ms

28.0ms

10.0 V

500mV

20.0ms

30.8 V

50.20 %

INPUT=115VAC/60HZ @ FULL LOAD

CH1: Output Voltage

CH2: AC Input Voltage

5.60 V

43.0 V

20.8ms

37.2ms

10.0 V

200mV

20.0ms

30.8 V

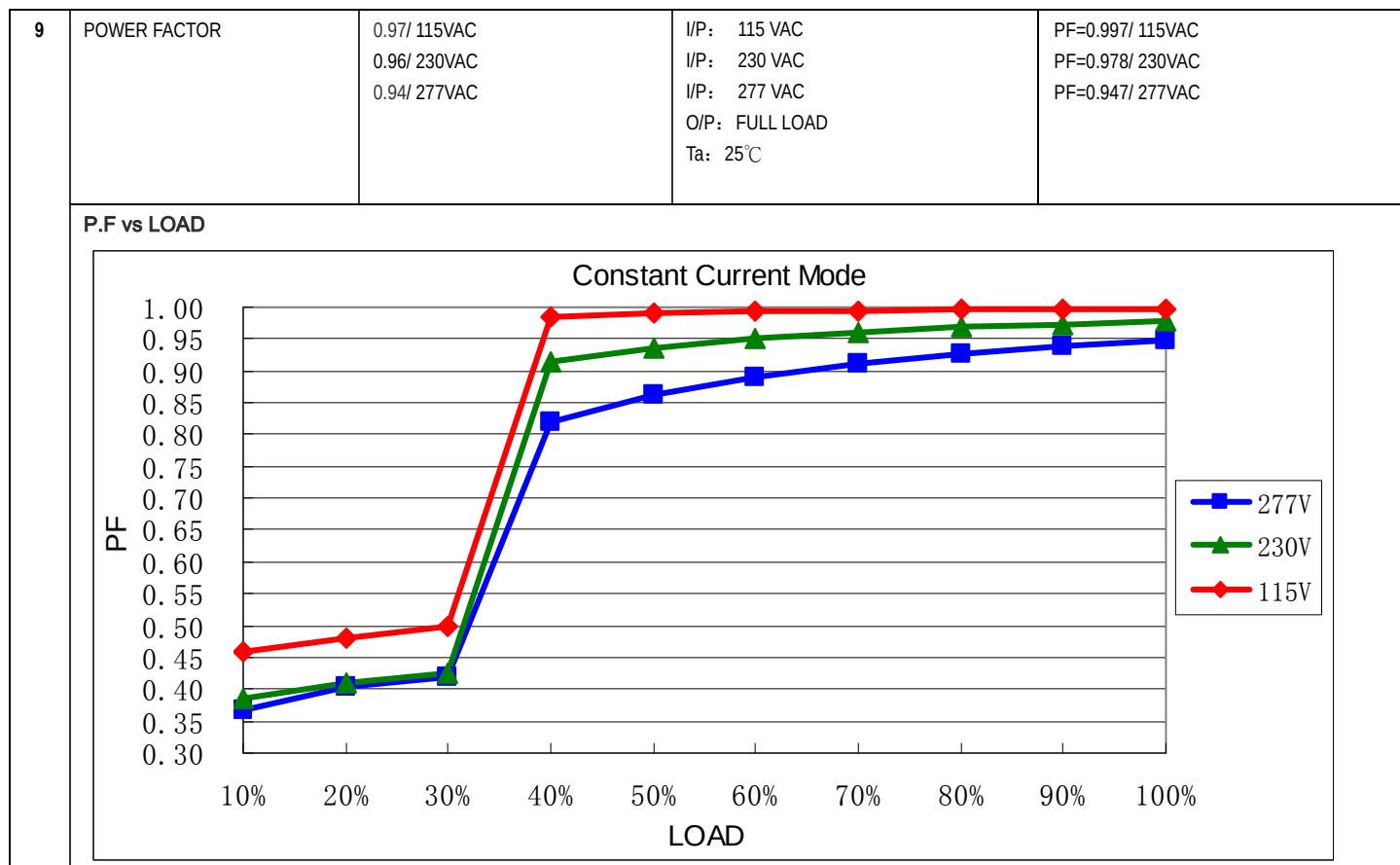
50.20 %

6	DIMMING TEST	SPEC: ※ With built-in 3 in 1 dimming function,the duty of the PWM style output 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) <table><tr><td>Resistance value</td><td>Short</td><td>10K Ω</td><td>20K Ω</td><td>30K Ω</td><td>40K Ω</td><td>50K Ω</td><td>60K Ω</td><td>70K Ω</td><td>80K Ω</td><td>90K Ω</td><td>100K Ω</td><td>OPEN</td></tr><tr><td>Output Current duty</td><td>0%</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>100%</td></tr></table> ※ 0 ~ 10V dimming function for output current adjustment (Typical) <table><tr><td>Dimming value</td><td>0V</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 duty</td><td>0%</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>100%</td></tr></table> ※ 10V PWM signal for output current adjustment (Typical): Frequency range: 100Hz~3KHz <table><tr><td>Duty value</td><td>0%</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 duty</td><td>0%</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>100%</td></tr></table> TEST RESULT: I/P: 230 VAC; Ta: 25℃ <table><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</td><td>0.256</td><td>0.532</td><td>0.785</td><td>1.040</td><td>1.303</td><td>1.553</td><td>1.812</td><td>2.056</td><td>2.350</td><td>2.508</td><td>2.558</td></tr><tr><td>Output Current duty</td><td>0%</td><td>10.25 %</td><td>21.29 %</td><td>31.38 %</td><td>41.62 %</td><td>52.13 %</td><td>62.12 %</td><td>72.48 %</td><td>82.23 %</td><td>93.99 %</td><td>100.32 %</td><td>102.32 %</td></tr><tr><td rowspan="3">2</td><td>Dimming value</td><td>0V</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</td><td>0.254</td><td>0.504</td><td>0.731</td><td>1.001</td><td>1.262</td><td>1.527</td><td>1.781</td><td>2.053</td><td>2.303</td><td>2.558</td><td>2.558</td></tr><tr><td>Output Current duty</td><td>0%</td><td>10.18 %</td><td>20.14 %</td><td>29.25 %</td><td>40.03 %</td><td>50.47 %</td><td>61.08 %</td><td>71.23 %</td><td>82.12 %</td><td>92.11 %</td><td>102.32 %</td><td>102.32 %</td></tr><tr><td rowspan="3">3</td><td>Duty value</td><td>0%</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</td><td>0.259</td><td>0.511</td><td>0.754</td><td>0.998</td><td>1.259</td><td>1.513</td><td>1.768</td><td>2.026</td><td>2.303</td><td>2.539</td><td>2.558</td></tr><tr><td>Output Current duty</td><td>0%</td><td>10.34 %</td><td>20.45 %</td><td>30.14 %</td><td>39.92 %</td><td>50.36 %</td><td>60.52 %</td><td>70.70 %</td><td>81.04 %</td><td>92.10 %</td><td>101.56 %</td><td>102.32 %</td></tr></table>	Resistance value	Short	10K Ω	20K Ω	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80K Ω	90K Ω	100K Ω	OPEN	Output Current duty	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	100%	Dimming value	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN	Output Current duty	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	100%	Duty value	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN	Output Current duty	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	100%	1	Resistance value	Short	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	OPEN	Output Current	0	0.256	0.532	0.785	1.040	1.303	1.553	1.812	2.056	2.350	2.508	2.558	Output Current duty	0%	10.25 %	21.29 %	31.38 %	41.62 %	52.13 %	62.12 %	72.48 %	82.23 %	93.99 %	100.32 %	102.32 %	2	Dimming value	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN	Output Current	0	0.254	0.504	0.731	1.001	1.262	1.527	1.781	2.053	2.303	2.558	2.558	Output Current duty	0%	10.18 %	20.14 %	29.25 %	40.03 %	50.47 %	61.08 %	71.23 %	82.12 %	92.11 %	102.32 %	102.32 %	3	Duty value	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN	Output Current	0	0.259	0.511	0.754	0.998	1.259	1.513	1.768	2.026	2.303	2.539	2.558	Output Current duty	0%	10.34 %	20.45 %	30.14 %	39.92 %	50.36 %	60.52 %	70.70 %	81.04 %	92.10 %	101.56 %	102.32 %
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INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	90VAC~305VAC	I/P: TESTING O/P: FULL LOAD Ta: 25°C	87V~305V
			I/P: (1)LOW-LINE-3V=87 V HIGH-LINE+10V=315 V O/P: FULL/NO LOAD ON: 30 Sec OFF: 30 Sec 10MIN (2)230VAC ON: 0.5 Sec OFF: 0.5 Sec 20MIN (3)230VAC ON: 3Sec OFF: 3Sec 12HOURS (POWER ON/OFF NO DAMAGE)	TEST: OK
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P: 90 VAC ~305 VAC O/P: FULL~NO LOAD Ta: 25°C	TEST: OK
3	AC CURRENT	1.3A/115VAC 0.65A/230VAC 0.55A/277VAC	I/P: 115 VAC I/P: 230 VAC I/P: 277 VAC O/P: FULL LOAD Ta: 25°C	I=1.152A/ 115VAC I=0.584A/ 230VAC I=0.502A/ 277VAC
4	LEAKAGE CURRENT	< 0.25mA / 277VAC	I/P: 277 VAC O/P: NO LOAD Ta: 25°C	L-FG: 0.003 mA N-FG: 0.003 mA
5	NO LOAD POWER CONSUMPTION	< 0.5W	I/P: 230VAC O/P: NO LOAD Ta: 25°C	0.373W
6	TOTAL HARMONIC DISTORTION	Total harmonic distortion will be lower than 20% when output loading is 60% or higher at 115V/230VAC	I/P: 115VAC I/P: 230VAC O/P: 60% LOAD	THD: 6.43 %/115VAC THD: 16.51 %/230VAC
		Total harmonic distortion will be lower than 20% when output loading is 75% or higher at 277VAC	I/P: 277VAC O/P: 75% LOAD	THD: 18.19 %

7	INRUSH CURRENT(Typ)	60A/230VAC Twidth =520 us measured at 50% Ipeak COLD START	I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	I=42.4A/ 230VAC Twidth =464us
INPUT=230VAC/50HZ @ FULL LOAD CH2: Input current CH1: AC Input Voltage				
Tek Run				



PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER LOAD PROTECTION	108 %~ 120 %	I/P: 230VAC O/P: TESTING Ta: 25°C	114.44%/ 230VAC Hiccup mode, recovers automatically after fault condition is removed
2	OVER VOLTAGE PROTECTION	54V~60V	I/P: 230VAC O/P: NO LOAD Ta: 25°C	56.95V/ 230VAC Shut down o/p voltage, re-power on to recover
3	OVER TEMPERATURE PROTECTION	NO DAMAGE	I/P: 230 VAC O/P: FULL LOAD	O.T.P. Active Shut down o/p voltage, re-power on to recover
4	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P: 295VAC O/P: FULL LOAD Ta: 25°C	NO DAMAGE Shut down o/p voltage, re-power on to recover

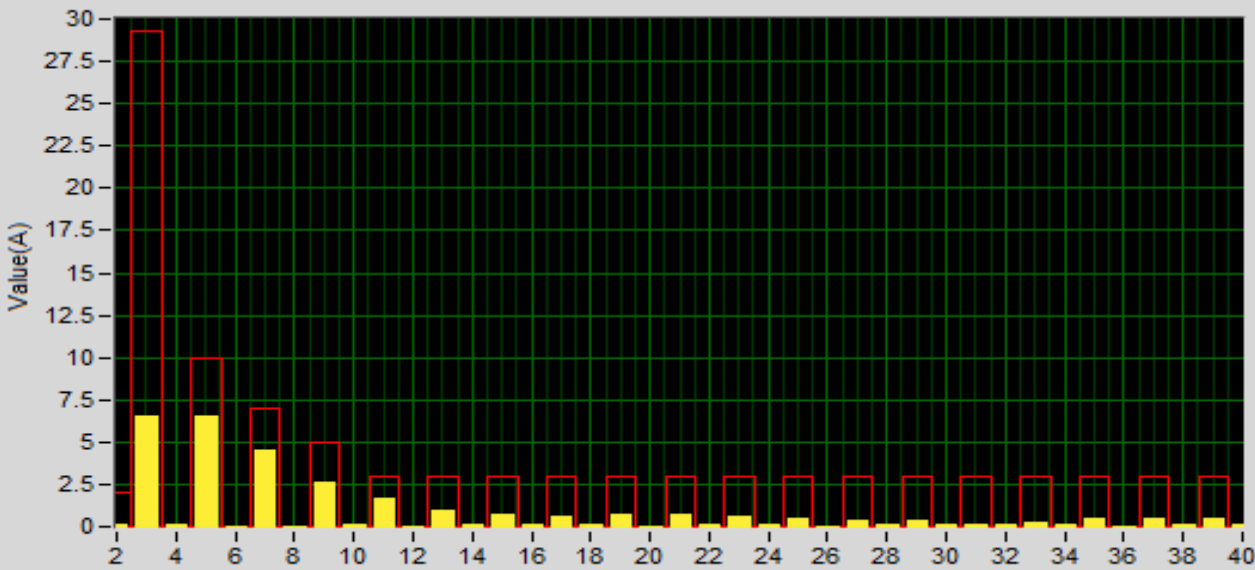
COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM Transistor (D to S) or (C to E) Peak Voltage	Q 2 Rated 730V/10A	I/P: High-Line +3V =308V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25℃	(1) 710V (2) 678V (3) 698V
2	Diode Peak Voltage	Q101 Rated 300V/20A	I/P: High-Line +3V =308V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25℃	(1) 210V (2) 210V (3) 205V
3	Input Capacitor Voltage	C5 Rated 100u/ 450V	I/P: High-Line +3V =308 V O/P: (1) Full Load input on/off (2) NO load input on /Off (3) Full Load /NO load Change Ta: 25℃	(1) 448V (2) 444V (3) 448V
4	Control IC Voltage Test	U1 Rated 28V	I/P: High-Line +3V =308 V O/P: (1) Full Load input on/off (2) NO load input on /Off (3) Full Load /NO load Change Ta: 25℃	(1) 17.6V (2) 17.1V (3) 17.6V
5	PFC Transistor (D to S) or (C to E) Peak Voltage	Q 1 Rated 600V/15A	I/P: High-Line +3V =308V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25℃	(1) 496V (2) 490V (3) 476V

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC/min	I/P-O/P: 4.2KVAC/min Ta: 25℃	I/P-O/P: 1.767mA NO DAMAGE
2	ISOLATION RESISTANCE	I/P-O/P: 500VDC>100MΩ	I/P-O/P: 500VDC Ta: 25℃	I/P-O/P: >9999MΩ

E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	HARMONIC	EN61000-3-2 CLASS C	I/P: 115VAC/230VAC/50HZ O/P: 60%/FULL LOAD I/P: 277VAC/50HZ O/P: 75%/FULL LOAD Ta:25°C	PASS
				
2	CONDUCTION	EN55015	I/P: 230 VAC (50HZ) O/P: FULL LOAD Ta: 25°C	PASS Test by certified Lab
3	RADIATION	EN55015	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 LIGHT INDUSTRY INPUT: 1KV	I/P: 230 VAC/50HZ O/P: FULL LOAD Ta: 25°C	CRITERIA A
6	SURGE	EN61000-4-5 INDUSTRY L-N: 2KV	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: PWM-120-36 1. ROOM AMBIENT BURN-IN: 2 HRS I/P: 230VAC O/P: FULL LOAD Ta= 30.5℃ 2. HIGH AMBIENT BURN-IN: 2 HRS I/P: 230VAC O/P: FULL LOAD Ta= 46.2℃ <table><tr><th>NO</th><th>Position</th><th>ROOM AMBIENT Ta= 30.5 ℃</th><th>HIGH AMBIENT Ta=46.2 ℃</th></tr><tr><td>1</td><td>C110</td><td>59.8℃</td><td>73.1℃</td></tr><tr><td>2</td><td>Q105</td><td>63.2℃</td><td>76.4℃</td></tr><tr><td>3</td><td>C5</td><td>72.3℃</td><td>85.9℃</td></tr><tr><td>4</td><td>C11</td><td>73.1℃</td><td>87.5℃</td></tr><tr><td>5</td><td>C105</td><td>68.9℃</td><td>82.0℃</td></tr><tr><td>6</td><td>T1</td><td>77.8℃</td><td>95.8℃</td></tr><tr><td>7</td><td>RTH2</td><td>75.6℃</td><td>88.7℃</td></tr><tr><td>8</td><td>Q1</td><td>75.6℃</td><td>90.4℃</td></tr><tr><td>9</td><td>Q2</td><td>81.5℃</td><td>97.2℃</td></tr><tr><td>10</td><td>Q101</td><td>73.8℃</td><td>86.8℃</td></tr><tr><td>11</td><td>RTH1</td><td>60.3℃</td><td>72.0℃</td></tr><tr><td>12</td><td>D10</td><td>85.8℃</td><td>101.8℃</td></tr><tr><td>13</td><td>C45</td><td>69.7℃</td><td>83.2℃</td></tr><tr><td>14</td><td>U1</td><td>68.5℃</td><td>82.3℃</td></tr><tr><td>15</td><td>R7</td><td>82.9℃</td><td>97.8℃</td></tr><tr><td>16</td><td>C15</td><td>85.5℃</td><td>99.9℃</td></tr><tr><td>17</td><td>C12</td><td>75.7℃</td><td>90.1℃</td></tr><tr><td>18</td><td>RTH3</td><td>67.6℃</td><td>81.1℃</td></tr><tr><td>19</td><td>TC</td><td>62.5℃</td><td>76.6℃</td></tr></table>			NO	Position	ROOM AMBIENT Ta= 30.5 ℃	HIGH AMBIENT Ta=46.2 ℃	1	C110	59.8℃	73.1℃	2	Q105	63.2℃	76.4℃	3	C5	72.3℃	85.9℃	4	C11	73.1℃	87.5℃	5	C105	68.9℃	82.0℃	6	T1	77.8℃	95.8℃	7	RTH2	75.6℃	88.7℃	8	Q1	75.6℃	90.4℃	9	Q2	81.5℃	97.2℃	10	Q101	73.8℃	86.8℃	11	RTH1	60.3℃	72.0℃	12	D10	85.8℃	101.8℃	13	C45	69.7℃	83.2℃	14	U1	68.5℃	82.3℃	15	R7	82.9℃	97.8℃	16	C15	85.5℃	99.9℃	17	C12	75.7℃	90.1℃	18	RTH3	67.6℃	81.1℃	19	TC	62.5℃	76.6℃
NO	Position	ROOM AMBIENT Ta= 30.5 ℃	HIGH AMBIENT Ta=46.2 ℃																																																																																	
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3	C5	72.3℃	85.9℃																																																																																	
4	C11	73.1℃	87.5℃																																																																																	
5	C105	68.9℃	82.0℃																																																																																	
6	T1	77.8℃	95.8℃																																																																																	
7	RTH2	75.6℃	88.7℃																																																																																	
8	Q1	75.6℃	90.4℃																																																																																	
9	Q2	81.5℃	97.2℃																																																																																	
10	Q101	73.8℃	86.8℃																																																																																	
11	RTH1	60.3℃	72.0℃																																																																																	
12	D10	85.8℃	101.8℃																																																																																	
13	C45	69.7℃	83.2℃																																																																																	
14	U1	68.5℃	82.3℃																																																																																	
15	R7	82.9℃	97.8℃																																																																																	
16	C15	85.5℃	99.9℃																																																																																	
17	C12	75.7℃	90.1℃																																																																																	
18	RTH3	67.6℃	81.1℃																																																																																	
19	TC	62.5℃	76.6℃																																																																																	
2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P: 305VAC/100VAC O/P: FULL LOAD Ta= -45℃ / -30℃	TEST: OK																																																																																
3	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 45 ℃ NO DAMAGE	I/P: 315VAC O/P: FULL LOAD Ta=45 ℃ HUMIDITY= 95% R.H	TEST: OK																																																																																
4	TEMPERATURE COEFFICIENT	±0.03%/℃ (0~50℃)	I/P: 230 VAC O/P: FULL LOAD	± 0.003%/℃ (0~50℃)																																																																																
5	STORAGE TEMPERATURE TEST	1. Thermal shock Temperature: -45℃ ~ +90℃ 2. Temperature change rate : 25℃ / MIN 3. Dwell time low and high temperature : 30 MIN/EACH 4. Total test cycle: 5 CYCLE 5. Input/Output condition: STATIC		TEST: OK																																																																																



120W PWM Output LED Driver

PWM-120 series

6	THERMAL SHOCK TEST	1. Thermal shock Temperature: $-45^{\circ}\text{C} \sim +50^{\circ}\text{C}$ 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 58 sec, turn off 2 sec;	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	PWM-120-36: SUPPOSE C105 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= 45°C LIFE TIME (3) I/P: 230VAC O/P: 75% LOAD Ta= 45°C LIFE TIME (4) I/P: 230VAC O/P: 50% LOAD Ta= 45°C LIFE TIME	(1) 216348 HRS (2) 45738 HRS (3) 60016 HRS (4) 94864 HRS
9	MTBF	MIL-HDBK-217F TOTAL FAILURE RATE: 228.7K HRS	
10	DMTBF/Accelerated Life Test	Demonstration Mean Time Between Failure (Expected Life): 50000 hours @ TC 70°C	

TEST RESULT	TESTER	REVIEW	APPROVAL
PASS	ZHANGZJ/ZHUOKB	SKY	LIUWY