



Test Report: ELG-240-48

240W Constant Voltage + Constant Current 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

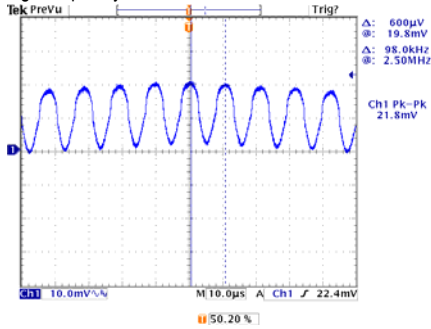
Environment Test

DESIGN VERIFY TEST

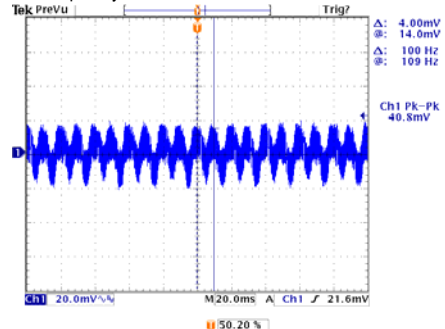
OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	CONSTANT CURRENT REGION	24V~48V	I/P: 230VAC O/P: LED MODE Ta: 25°C	17 V~ 48 V
2	OUTPUT VOLTAGE ADJUST RANGE (For A-Type only)	44.8V~51.2V	I/P: 230VAC O/P: NO LOAD Ta: 25°C	42.97 V~ 52.98 V
3	OUTPUT CURRENT ADJUST RANGE (For A-Type only)	2.5A~5A	I/P: 230VAC O/P: SETTING Ta: 25°C	2.10 A~ 5.76 A
4	OUTPUT VOLTAGE TOLERANCE	-2%~+2%	I/P: 100VAC / 305VAC O/P: 95% / NO LOAD Ta: 25°C	-0.27%~ 0.35%
5	LINE REGULATION	-0.5%~+0.5%	I/P: 200VAC ~ 305VAC O/P: 95% LOAD Ta: 25°C	0%~ 0%
6	LOAD REGULATION	-0.5%~+0.5%	I/P: 230VAC O/P: 95% ~NO LOAD Ta: 25°C	-0.04%~ 0.04%
7	OVER/UNDERSHOOT TEST	<± 5 %	I/P: 230VAC O/P: 95% LOAD Ta: 25°C	<5 %
8	RIPPLE & NOISE (Max)	250mVp-p	I/P: 230VAC O/P: 95% LOAD Ta: 25°C	40.8 mVp-p

high frequency :



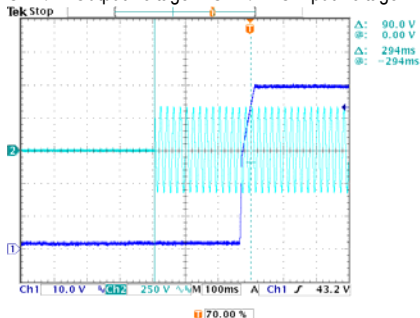
low frequency :



9	SET UP TIME(Max)	230VAC/ 500ms 115VAC/ 1000ms	I/P: 230 VAC I/P: 115 VAC O/P: 95% LOAD/75% LOAD Ta: 25°C	230VAC/ 294 ms 115VAC/ 362 ms
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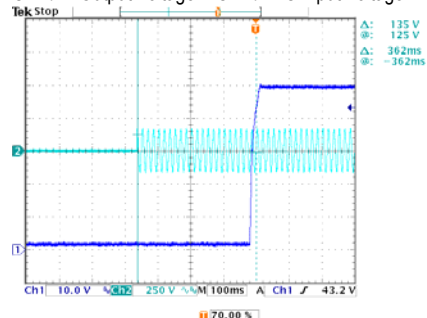
INPUT=230VAC/50HZ @ 95% LOAD

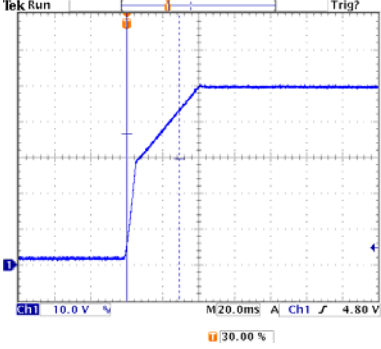
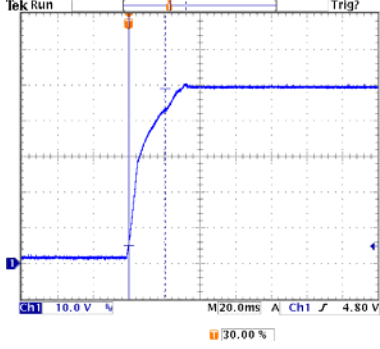
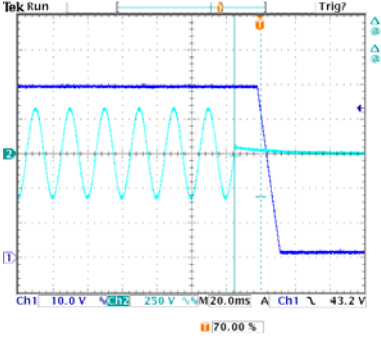
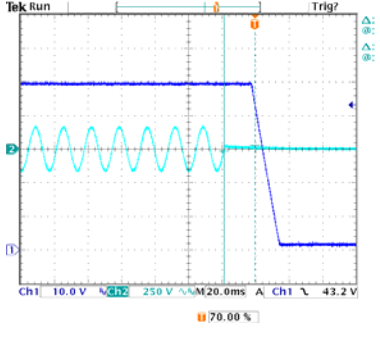
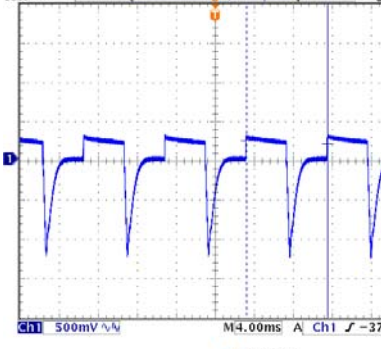
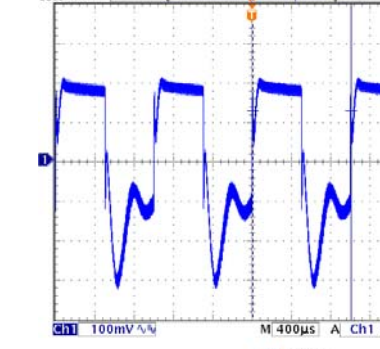
CH1: Output Voltage CH2: AC Input Voltage



INPUT=115VAC/60HZ @ 75% LOAD

CH1: Output Voltage CH2: AC Input Voltage

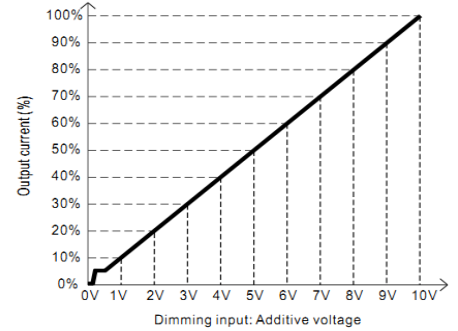
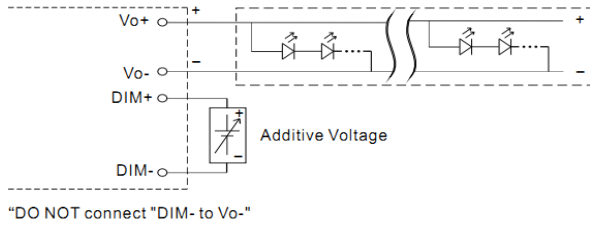


10	RISE TIME (Max)	230VAC/ 100ms 115VAC/ 100ms	I/P: 230 VAC I/P: 115 VAC O/P: 95% LOAD/75% LOAD Ta: 25°C	230VAC/ 29.2 ms 115VAC/ 20.4 ms
<p>INPUT=230VAC/50HZ @ 95% LOAD</p> <p>CH1: Output Voltage</p> 		<p>INPUT=115VAC/60HZ @ 75% LOAD</p> <p>CH1: Output Voltage</p> 		
11	HOLD UP TIME(Typ)	230VAC/ 10ms 115VAC/ 10ms	I/P: 230 VAC I/P: 115 VAC O/P: 95% LOAD/75% LOAD Ta: 25°C	230VAC/ 15.2 ms 115VAC/ 18.4 ms
<p>INPUT=230VAC/50HZ @ 95% LOAD</p> <p>CH1: Output Voltage CH2: AC Input Voltage</p> 		<p>INPUT=115VAC/60HZ @ 75% LOAD</p> <p>CH1: Output Voltage CH2: AC Input Voltage</p> 		
12	DYNAMIC LOAD	V1: 4800 mVp-p	I/P: 230VAC O/P: (1)95%/50% LOAD 50%DUTY / 120HZ (2)95%/50% LOAD 50%DUTY / 1KHZ Ta: 25°C	(1) 1560 mVp-p (2) 524 mVp-p
<p>FULL /50% LOAD 50%DUTY / 120HZ</p> 		<p>FULL /50% LOAD 50%DUTY / 1KHZ</p> 		

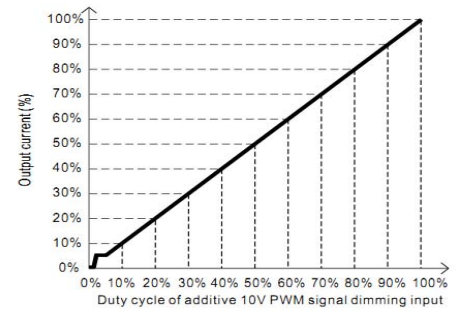
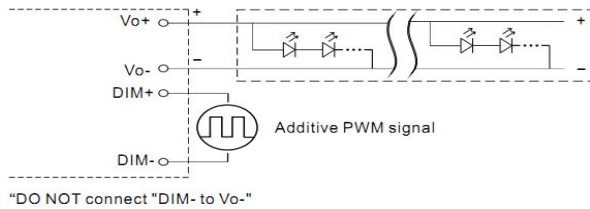
13 DIMMING OPERATION (for B-Type)

- 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.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100uA(typ.)

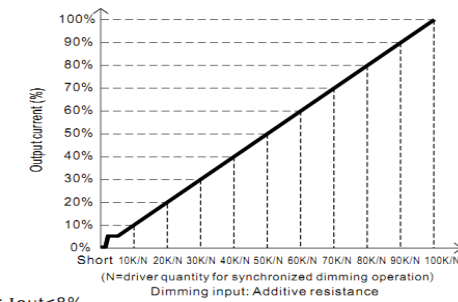
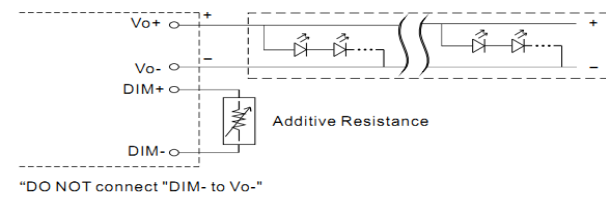
◎ Applying additive 0 ~ 10VDC



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



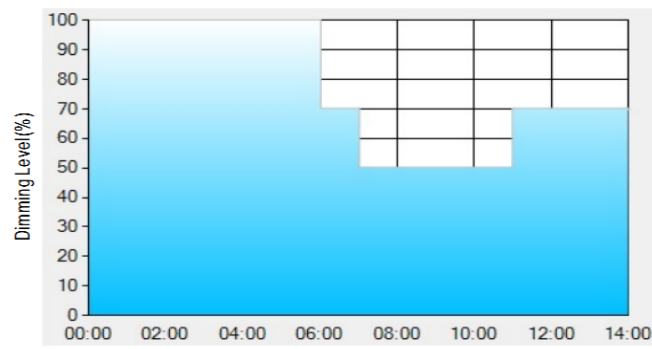
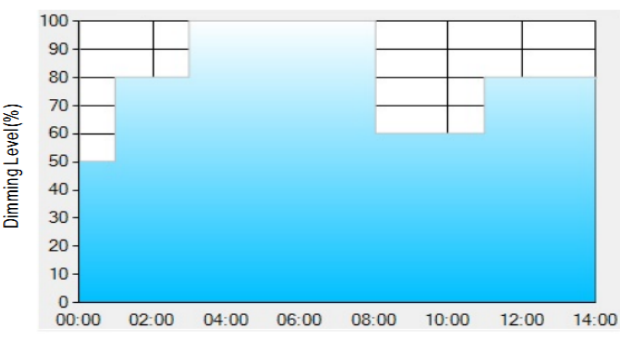

◎ Applying additive resistance:



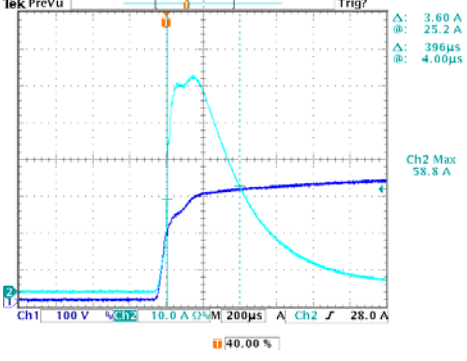
Note : 1. Min. dimming level is about 8% and the output current is not defined when 0% < Iout < 8%.
 2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.

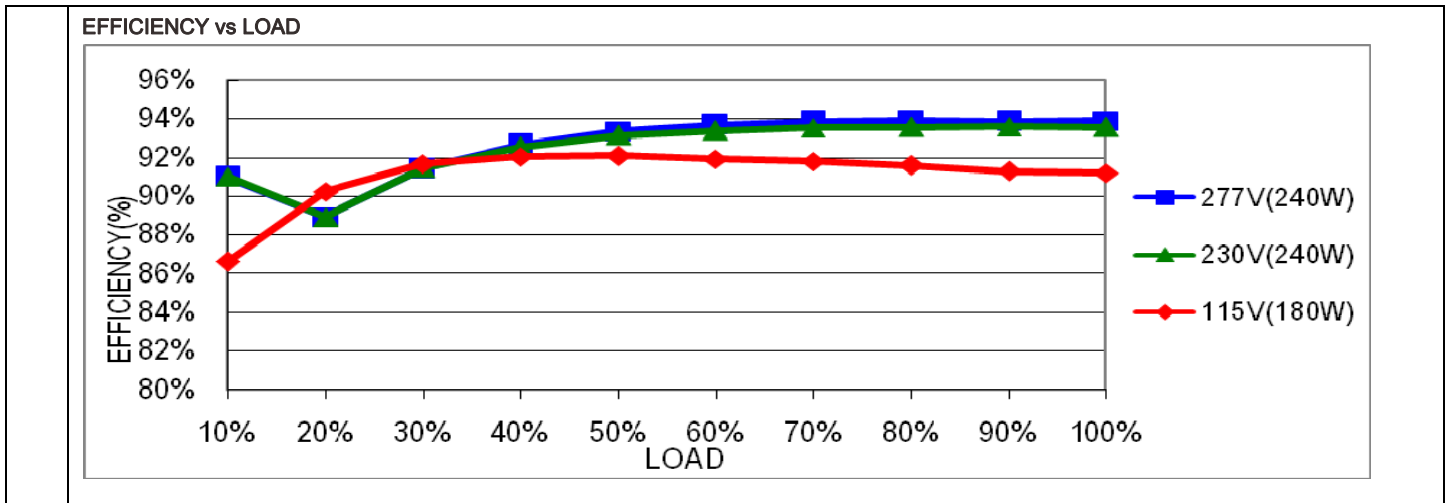
	V	Short	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
1	Output Current	0	0.469	0.986	1.477	1.999	2.507	3.036	3.557	4.047	4.564	5.032	5.036
	%	0%	9.38%	19.71%	29.54%	39.98%	50.14%	60.73%	71.14%	80.94%	91.28%	100.64%	100.71%
2	PWM(100Hz)	0V	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
	Output Current	0	0.443	0.954	1.466	1.981	2.496	3.012	3.532	4.055	4.578	5.034	5.038
	%	0%	8.86%	19.09%	29.33%	39.62%	49.92%	60.23%	70.64%	81.10%	91.57%	100.69%	100.75%
3	R	0%	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	OPEN
	Output Current	0	0.465	0.982	1.504	2.020	2.541	3.058	3.584	4.108	4.627	5.016	5.020
	%	0%	9.30%	19.65%	30.07%	40.39%	50.82%	61.15%	71.69%	82.17%	92.54%	100.32%	100.41%

TEST RESULT: OK

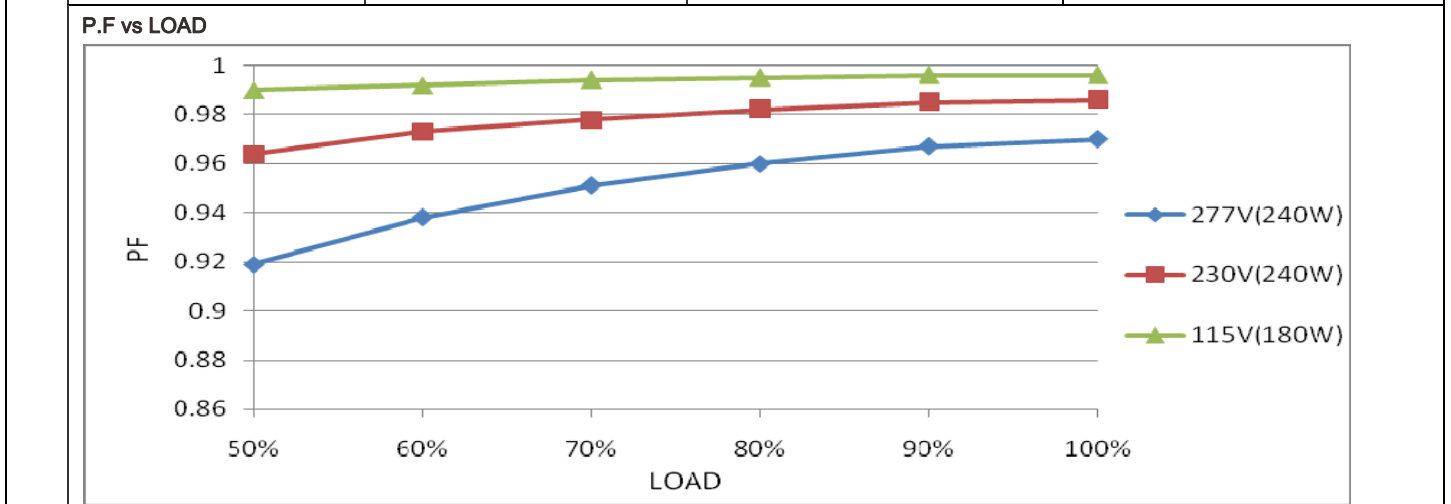
14	<p>DIMMING OPERATION (primary side, for DA-Type)</p>	<p>※DALI Interface ·Apply DALI signal between DA+ and DA-. ·DALI protocol comprises 16 groups and 64 addresses. ·First step is fixed at 8% of output. Please contact MEAN WELL for other setup.</p> <p>I/P: 230 VAC O/P: DIMMING TEST Ta: 25°C TEST RESULT: OK</p>																																													
15	<p>DIMMING OPERATION (for DXX-Type by User definition)</p>	<p>※Smart timer dimming function ·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 other setup. 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="981 750 1508 884"> <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="909 1164 1524 1299"> <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="997 1590 1428 1736"> <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: 230 VAC 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

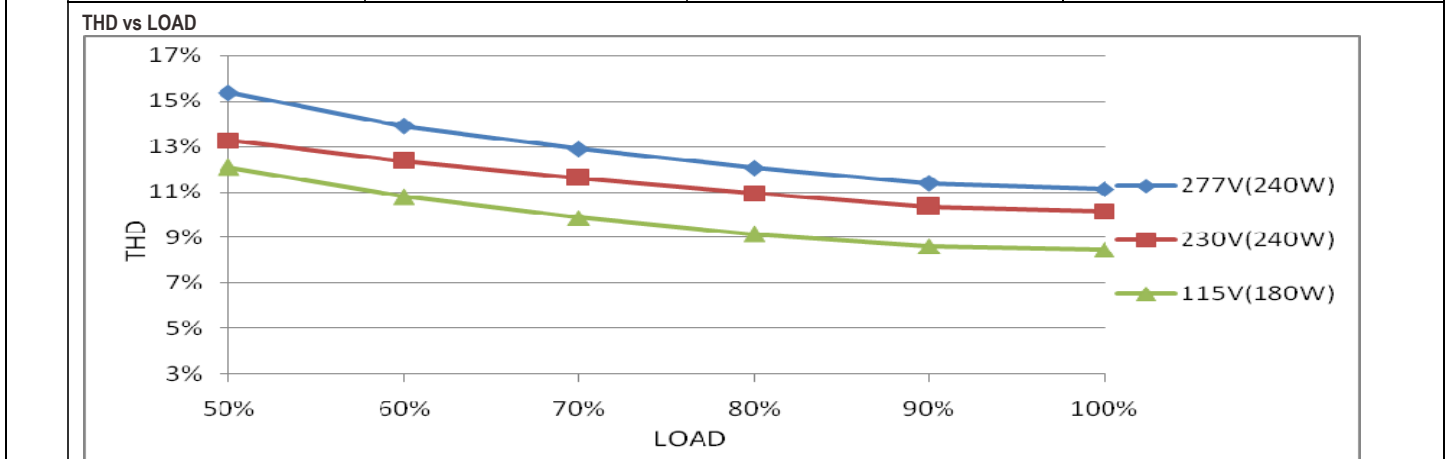
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	100VAC~305VAC	I/P: TESTING O/P: 95% LOAD Ta: 25°C	97 V~ 305 V
			I/P: LOW-LINE-3V=97 V HIGH-LINE+10V=315 V O/P: 95%/NO LOAD ON: 30 Sec OFF: 30 Sec 10MIN (POWER ON/OFF NO DAMAGE)	TEST: OK
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P: 100 VAC ~305 VAC O/P: 95%-NO LOAD Ta: 25°C	TEST: OK
3	AC CURRENT	2.2A/115VAC 1.5A/230VAC 1.2A/277VAC	I/P: 115 VAC I/P: 230 VAC I/P: 277 VAC O/P: 95% LOAD/75% LOAD Ta: 25°C	I = 2.17 A/ 115VAC I = 1.07 A/ 230VAC I = 0.90 A/ 277VAC
4	LEAKAGE CURRENT	< 0.75mA / 277VAC	I/P: 277 VAC O/P: NO LOAD Ta: 25°C	L-FG: 0.381 mA N-FG: 0.364 mA
5	NO LOAD/STANDBY POWER CONSUMPTION	< 0.5W	I/P: 230VAC O/P: NO LOAD Ta: 25°C	0.346 W/ 230VAC
6	INRUSH CURRENT(Typ)	230V/ 60A Twidth =510us measured at 50% Ipeak COLD START	I/P: 230 VAC O/P: 95% LOAD Ta: 25°C	I = 58.8 A/ 230VAC Twidth =396 us
<p>INPUT=230VAC/50HZ @ 95% LOAD CH2: Input current CH1: AC Input Voltage</p>  <p>Ch2 Max 58.8 A</p> <p>Δ: 3.60 A @: 25.2 A Δ: 396 μs @: 4.00 μs</p> <p>Ch1 100 V 10.0 A 200 μs A Ch2 28.0 A</p>				
7	EFFICIENCY(Typ)	93%	I/P: 230VAC O/P: 95% LOAD Ta: 25°C	93.58 %



8	POWER FACTOR	0.97/ 115VAC	I/P: 115 VAC	PF= 0.996 / 115VAC
		0.95/ 230VAC	I/P: 230 VAC	PF= 0.986 / 230VAC
		0.92/ 277VAC	I/P: 277 VAC	PF= 0.970 / 277VAC
			O/P: 95% LOAD/75% LOAD	
			Ta: 25°C	



9	TOTAL HARMONIC DISTORTION	THD < 20%	I/P: 115 VAC/50% LOAD	THD=12.08% @50% load /115VAC
		(@load ≥ 50%/115VAC, 230VAC;	I/P: 230 VAC/50% LOAD	THD=13.28% @50% load /230VAC
		@load ≥ 75%/277VAC)	I/P: 277 VAC/75% LOAD	THD=12.42% @75% load /277VAC
			Ta: 25°C	



PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER CURRENT PROTECTION	95%~108%	I/P: 200VAC I/P: 230VAC I/P: 305VAC O/P: TESTING Ta: 25°C	100.81 %/ 200VAC 100.81 %/ 230VAC 100.81 %/ 305VAC Constant Current Limiting, recovers automatically after fault condition is removed
2	OVER VOLTAGE PROTECTION	54V~63V	I/P: 100VAC I/P: 230VAC I/P: 305VAC O/P: NO LOAD Ta: 25°C	58.83 V/ 100VAC 58.83 V/ 230VAC 58.83 V/ 305VAC Shut down o/p voltage, re-power on to recovery
3	OVER TEMPERATURE PROTECTION	NO DAMAGE	I/P: 200VAC I/P: 230VAC I/P: 305VAC O/P: 95% LOAD	O.T.P. Active Shut down o/p voltage, re-power on to recovery
4	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P: 200VAC I/P: 305VAC O/P: 95% LOAD Ta: 25°C	NO DAMAGE Hiccup mode, recovers automatically after fault condition is removed

COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM Power Transistor	Q 2 Rated 600V/11A	I/P: High-Line +3V =308V O/P: (1) 95% LOAD Turn on (2) Output Short (3) 95% LOAD continue Ta: 25°C	(1) 537 V (2) 504 V (3) 450 V
2	O/P Diode (MOSFET)	Q101 Rated 150V/30A	I/P: High-Line +3V =308V O/P: (1) 95% LOAD Turn on (2) Output Short (3) 95% LOAD continue Ta: 25°C	(1) 110 V (2) 16.2 V (3) 110 V
3	Input Capacitor	C5 Rated 100u/ 450V	I/P: High-Line +3V =308 V O/P: (1) 95% LOAD input on/off (2) NO LOAD input on /Off (3) 95% LOAD /NO LOAD Change Ta: 25°C	(1) 448 V (2) 448 V (3) 440 V
4	Control IC	U3 Rated 20V (MAX.)	I/P: High-Line +3V =308 V O/P: ((1) 95% LOAD (2) Output Short (3) O.L.P (4) O.V.P (5) Low Line No Load Vo(min) Ta: 25°C	(1) 16.1 V (2) 16.0 V (3) 17.3 V (4) 16.1 V (5) 12.8 V
5	PFC Power Transistor	Q 3 Rated 600V/20A	I/P: High-Line +3V =308V O/P: (1) 95% LOAD Turn on (2) Output Short (3) 95% LOAD continue Ta: 25°C	(1) 536 V (2) 418 V (3) 490 V

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC/min I/P-FG: 2.0KVAC/min O/P-FG: 1.5KVAC/min	I/P-O/P: 4.2KVAC/min I/P-FG: 2.4 KVAC/min O/P-FG: 1.8 KVAC/min Ta: 25°C	I/P-O/P: 1.907 mA I/P-FG: 3.126 mA O/P-FG: 1.478 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: >9999 MΩ I/P-FG: >9999 MΩ O/P-FG: >9999 MΩ

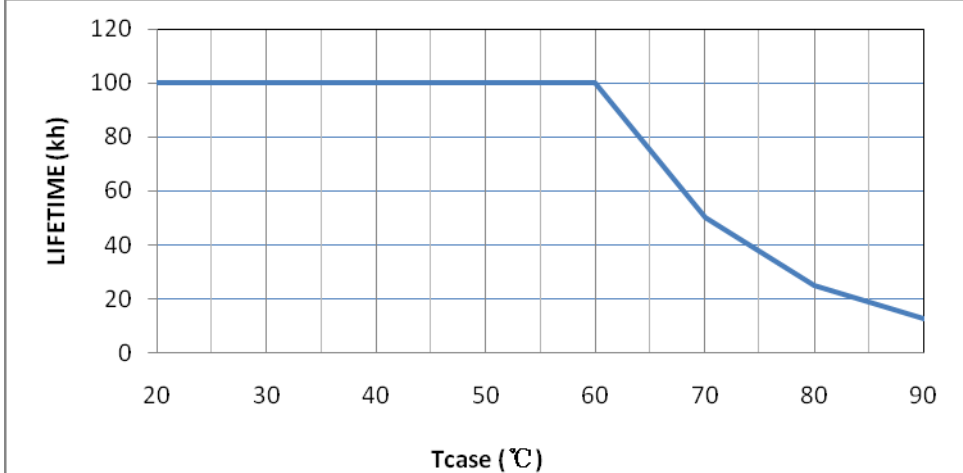
E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	HARMONIC	EN61000-3-2 CLASS C	I/P: 230VAC/50HZ O/P: 95%/50% LOAD Ta: 25°C	PASS
2	CONDUCTION	EN55015	I/P: 230 VAC (50HZ) O/P: 95% LOAD Ta: 25°C	PASS Test by certified Lab
3	RADIATION	EN55015	I/P: 230 VAC (50HZ) O/P: 95% 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: 95% LOAD Ta: 25°C	CRITERIA A
5	E.F.T	EN61000-4-4 LIGHT INDUSTRY INPUT: 1KV	I/P: 230VAC/50HZ O/P: 95% LOAD Ta: 25°C	CRITERIA A
6	SURGE	EN61000-4-5 INDUSTRY L-N: 4KV L,N-PE: 6KV	I/P: 230VAC/50HZ O/P: 95% LOAD L-N: 4KV L,N-PE: 6KV 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: ELG-240-48 1. ROOM AMBIENT BURN-IN: 2 HRS I/P: 230VAC O/P: 95% LOAD Ta=34.6 °C 2. HIGH AMBIENT BURN-IN: 2 HRS I/P: 230VAC O/P: 95% LOAD Ta=58.6 °C																																																																																						
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2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P: 305VAC/110VAC O/P: 95% LOAD/75% LOAD Ta= -45°C / -30°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: 305VAC O/P: 95% LOAD Ta=60°C HUMIDITY= 95 %R.H	TEST: OK																																																																																				
4	TEMPERATURE COEFFICIENT	±0.03 %/°C (0~50°C)	I/P: 230 VAC O/P: 95% LOAD	±0.002 %/°C (0~50°C)																																																																																				
5	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		TEST: OK																																																																																				

6	THERMAL SHOCK TEST	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: 230VAC/95% LOAD AC ON/OFF TEST AC on 3 sec/AC off 1 sec TEST	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	ELG-240-48: SUPPOSE C102 IS THE MOST CRITICAL COMPONENT (1) I/P: 230VAC O/P: 95% LOAD Ta= 25 °C LIFE TIME (2) I/P: 230VAC O/P: 95% 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) 424444 HRS (2) 59724 HRS (3) 61437 HRS (4) 92515 HRS																		
9	MTBF	Conducted by Parts Stress Analysis Prediction 826.7K hrs min. Telcordia SR-332 (Bellcore) 200.8K hrs min. MIL-HDBK-217F (25°C)																			
10	DMTBF/Accelerated Life Test	Demonstration Mean Time Between Failure (Expected Life): Above 50000 hours @ Tc 70°C  <table border="1"> <caption>Approximate data points from the Lifetime vs Temperature graph</caption> <thead> <tr> <th>Tcase (°C)</th> <th>Lifetime (kh)</th> </tr> </thead> <tbody> <tr><td>20</td><td>100</td></tr> <tr><td>30</td><td>100</td></tr> <tr><td>40</td><td>100</td></tr> <tr><td>50</td><td>100</td></tr> <tr><td>60</td><td>100</td></tr> <tr><td>70</td><td>50</td></tr> <tr><td>80</td><td>25</td></tr> <tr><td>90</td><td>15</td></tr> </tbody> </table>		Tcase (°C)	Lifetime (kh)	20	100	30	100	40	100	50	100	60	100	70	50	80	25	90	15
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TEST RESULT	TESTER	REVIEW	APPROVAL
PASS	ZHANGZJ/ZHUOKB	SKY	LIUWY