



# Test Report: ELG-150U-36

---

150W 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

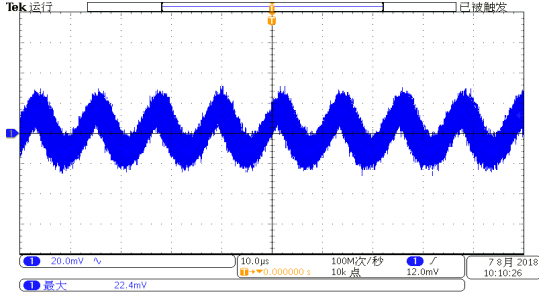
Environment Test

## DESIGN VERIFY TEST

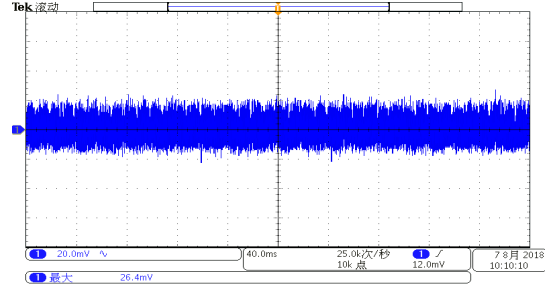
### OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	CONSTANT CURRENT REGION	18V~36V	I/P: 230VAC O/P: LED MODE Ta: 25°C	11V~ 36V
2	OUTPUT VOLTAGE ADJUST RANGE (For A-Type only)	32.4V~39.6V	I/P: 230VAC O/P: NO LOAD Ta: 25°C	28.8V~ 40.7V
3	OUTPUT CURRENT ADJUST RANGE (For A-Type only)	2.1A~4.17A (For A-Type only)	I/P: 230VAC O/P: SETTING Ta: 25°C	1.50A~5.03A
4	OUTPUT VOLTAGE TOLERANCE	-2.5%~+2.5%	I/P: 100VAC / 305VAC O/P: FULL/ NO LOAD Ta: 25°C	-0.27%~ 0.27%
5	LINE REGULATION	-0.5%~+0.5%	I/P: 120VAC ~ 305VAC O/P: FULL LOAD Ta: 25°C	0%~ 0%
6	LOAD REGULATION	-1%~+1%	I/P: 230VAC O/P: FULL ~NO LOAD Ta: 25°C	-0.27%~ 0.27%
7	OVER/UNDERSHOOT TEST	<± 5 %	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	± 2.96%
8	RIPPLE & NOISE (Max)	250mVp-p	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	26.4 mVp-p

high frequency :



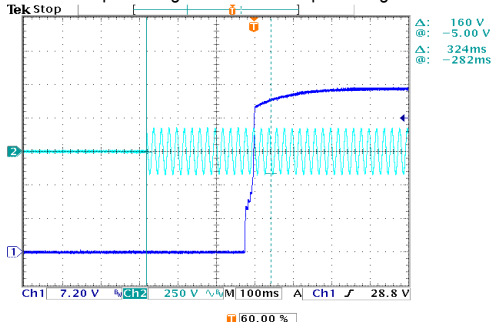
low frequency :



9	SET UP TIME(Max)	120VAC/ 1600ms 230VAC/ 500ms	I/P: 120 VAC I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	120VAC/ 324 ms 230VAC/ 386 ms
---	------------------	---------------------------------	--	----------------------------------

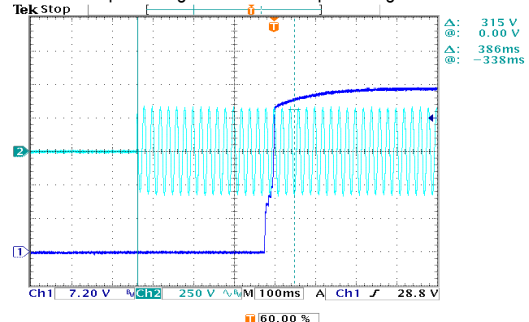
INPUT=120VAC/50HZ @ FULL LOAD

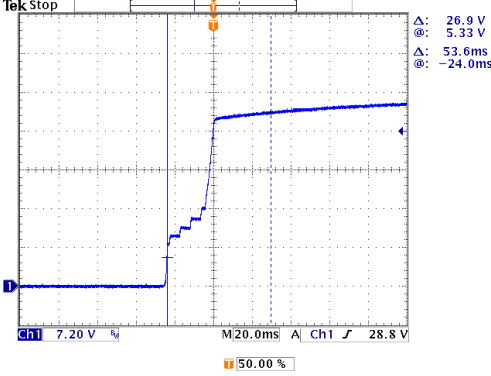
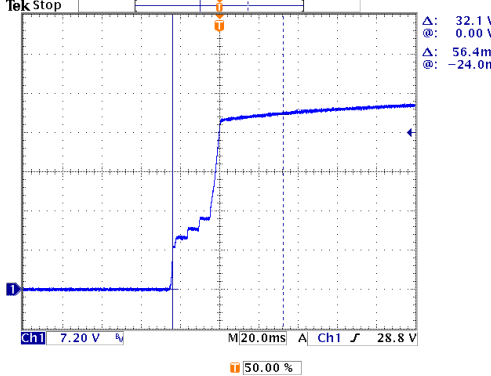
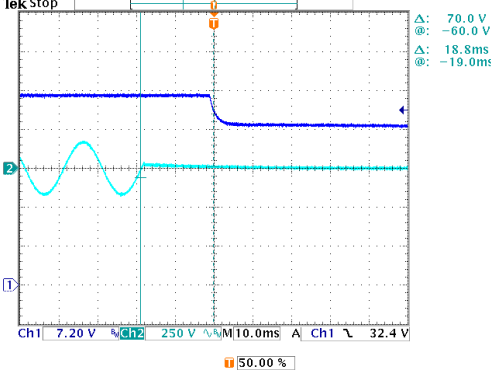
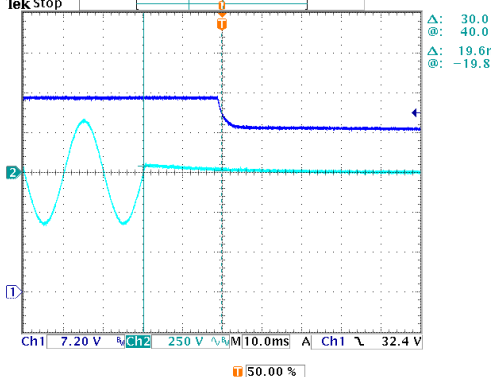
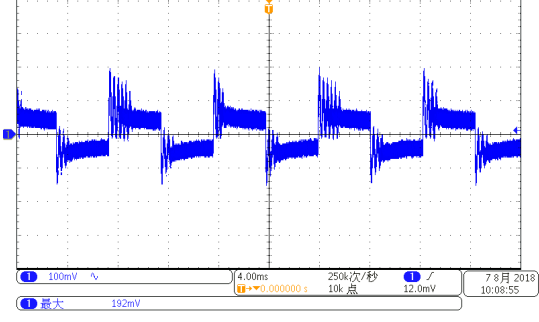
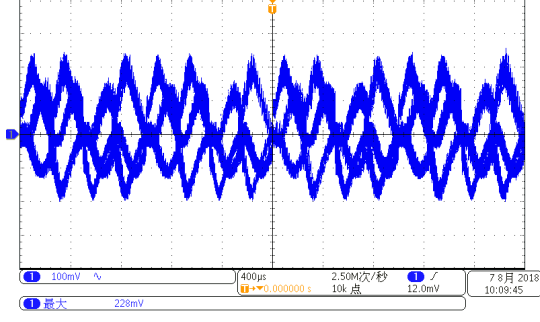
CH1: Output Voltage CH2: AC Input Voltage



INPUT=230VAC/50HZ @ FULL LOAD

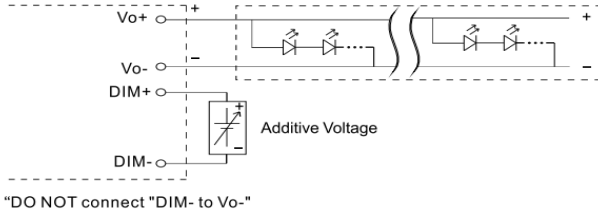
CH1: Output Voltage CH2: AC Input Voltage



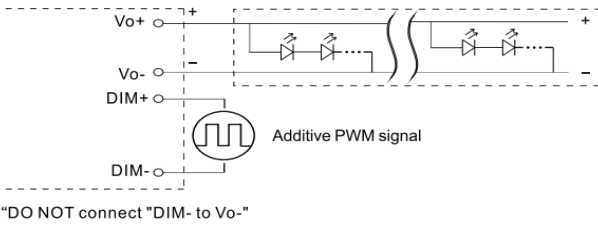
<p>10 RISE TIME (Max)</p>	<p>120VAC/ 80ms 230VAC/ 100ms</p>	<p>I/P: 120 VAC I/P: 230 VAC O/P: FULL LOAD Ta: 25°C</p>	<p>120VAC/ 53.6 ms 230VAC/ 56.4 ms</p>
<p>INPUT=120VAC/50HZ @ FULL LOAD CH1: Output Voltage</p> 		<p>INPUT=230VAC/50HZ @ FULL LOAD CH1: Output Voltage</p> 	
<p>11 HOLD UP TIME(Typ)</p>	<p>120VAC/ 10ms 230VAC/ 10ms</p>	<p>I/P: 120 VAC I/P: 230 VAC O/P: FULL LOAD Ta: 25°C</p>	<p>120VAC/ 18.8 ms 230VAC/ 19.6 ms</p>
<p>INPUT=120VAC/50HZ @ FULL LOAD CH1: Output Voltage CH2: AC Input Voltage</p> 		<p>INPUT=230VAC/50HZ @ FULL LOAD CH1: Output Voltage CH2: AC Input Voltage</p> 	
<p>12 DYNAMIC LOAD</p>	<p>V1: 3600 mVp-p</p>	<p>I/P: 230VAC O/P: (1)FULL /50% LOAD 50%DUTY / 120HZ (2)FULL /50% LOAD 50%DUTY / 1KHZ Ta: 25°C</p>	<p>(1) 192mVp-p (2) 220mVp-p</p>
<p>FULL /50% LOAD 50%DUTY / 120HZ</p> 		<p>FULL /50% LOAD 50%DUTY / 1KHZ</p> 	

13 DIMMING TEST  
(For B-Type only)

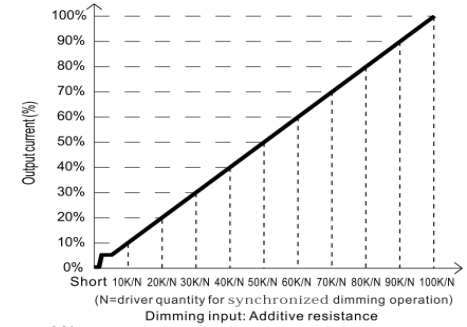
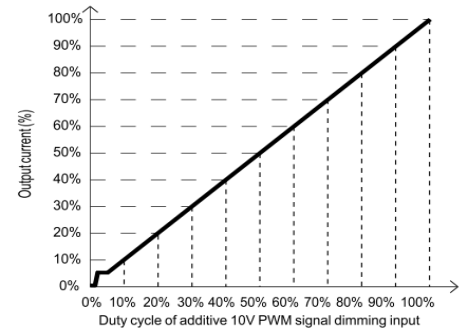
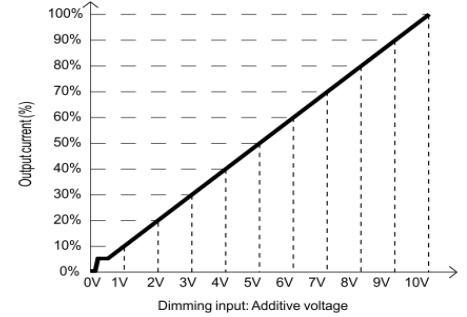
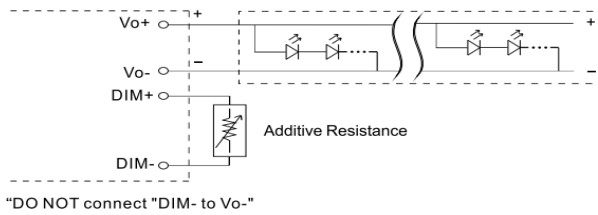
- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 10Vdc, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100uA (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  $0\% < I_{out} < 8\%$ .  
2. The output current could drop down to 0% when dimming input is about  $0k\Omega$  or 0Vdc, or 10V PWM signal with 0% duty cycle.

I/P: 230 VAC  
O/P: DIMMING TEST  
Ta: 25°C

	R	0K	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	OPEN
1	Output Current	0	0.27A	0.71A	1.16A	1.59A	2.03A	2.47A	2.91A	3.35A	3.80A	4.16A	4.17A
	%	0%	6.47%	17.03%	27.82%	38.13%	48.68%	59.23%	69.78%	80.34%	91.13%	99.76%	100.00%
	v	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
2	Output Current	0	0.29A	0.73A	1.15A	1.60A	2.02A	2.47A	2.92A	3.34A	3.78A	4.17A	4.17A
	%	0%	6.95%	17.51%	27.58%	38.37%	48.44%	59.23%	70.02%	80.10%	90.65%	100.00%	100.00%
	PWM(100Hz)	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
3	Output Current	0	0.27A	0.70A	1.14A	1.58A	2.01A	2.45A	2.89A	3.32A	3.76A	4.17A	4.17A
	%	0%	6.47%	16.79%	27.34%	37.89%	48.20%	58.75%	69.30%	79.62%	90.17%	100.00%	100.00%

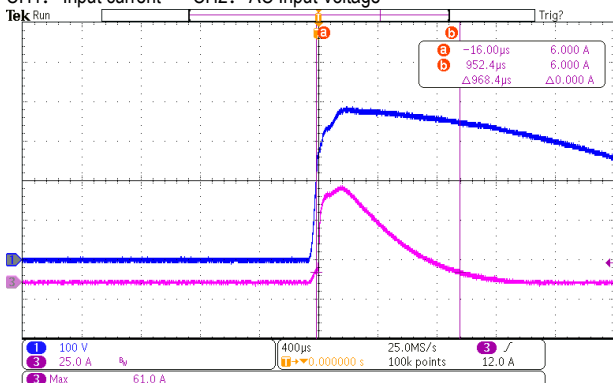
TEST RESULT: OK

## INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	100VAC~305VAC	I/P: TESTING O/P: FULL LOAD Ta: 25°C	97 V~ 305 V
			I/P: (1)LOW-LINE-3V=97 V HIGH-LINE+10V=315 V O/P: FULL/MIN LOAD ON: 30 Sec OFF: 30 Sec 10MIN (2)230VAC ON: 0.5 Sec OFF: 0.5 Sec 20MIN ( POWER ON/OFF NO DAMAGE )	TEST: OK
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P: 100 VAC ~305 VAC O/P: FULL~NO LOAD Ta: 25°C	TEST: OK
3	AC CURRENT	0.7A/277VAC 0.9A/230VAC 1.7A/120VAC	I/P: 277 VAC I/P: 230 VAC I/P: 120 VAC O/P: FULL LOAD Ta: 25°C	I = 0.57 A/ 277VAC I = 0.68 A/ 230VAC I = 1.31 A/ 120VAC
4	LEAKAGE CURRENT	< 0.75mA / 277VAC	I/P: 277 VAC O/P: NO LOAD Ta: 25°C	L-FG: 0.433 mA N-FG: 0.400 mA
5	NO LOAD/STANDBY POWER CONSUMPTION	< 0.5W	I/P: 230VAC O/P: NO LOAD Ta: 25°C	0.110 W/ 230VAC
6	INRUSH CURRENT(Typ)	277VAC/ 65A Twidth =1ms measured at 10% Ipeak COLD START	I/P: 277 VAC O/P: FULL LOAD Ta: 25°C	I = 61A/ 277VAC Twidth =952 us/10% Ipeak

INPUT=277VAC/50HZ @ FULL LOAD

CH4: Input current CH2: AC Input Voltage



7	EFFICIENCY(Typ)	90%	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	91.13%																												
<p><b>EFFICIENCY vs LOAD</b></p> <table border="1"> <caption>Efficiency vs Load Data</caption> <thead> <tr> <th>LOAD</th> <th>277V</th> <th>230V</th> <th>120V</th> </tr> </thead> <tbody> <tr> <td>50%</td> <td>89.0</td> <td>89.0</td> <td>90.0</td> </tr> <tr> <td>60%</td> <td>90.0</td> <td>90.0</td> <td>90.0</td> </tr> <tr> <td>70%</td> <td>90.5</td> <td>90.5</td> <td>90.0</td> </tr> <tr> <td>80%</td> <td>91.0</td> <td>91.0</td> <td>90.0</td> </tr> <tr> <td>90%</td> <td>91.0</td> <td>91.0</td> <td>90.0</td> </tr> <tr> <td>100%</td> <td>91.1</td> <td>91.1</td> <td>90.0</td> </tr> </tbody> </table>					LOAD	277V	230V	120V	50%	89.0	89.0	90.0	60%	90.0	90.0	90.0	70%	90.5	90.5	90.0	80%	91.0	91.0	90.0	90%	91.0	91.0	90.0	100%	91.1	91.1	90.0
LOAD	277V	230V	120V																													
50%	89.0	89.0	90.0																													
60%	90.0	90.0	90.0																													
70%	90.5	90.5	90.0																													
80%	91.0	91.0	90.0																													
90%	91.0	91.0	90.0																													
100%	91.1	91.1	90.0																													
8	POWER FACTOR	0.92/ 277VAC 0.95/ 230VAC 0.97/ 120VAC	I/P: 277 VAC I/P: 230 VAC I/P: 120 VAC O/P: FULL LOAD Ta: 25°C	PF= 0.974 / 277VAC PF= 0.990 / 230VAC PF= 0.998 / 120VAC																												
<p><b>P.F vs LOAD</b></p> <table border="1"> <caption>P.F vs Load Data</caption> <thead> <tr> <th>LOAD</th> <th>277V</th> <th>230V</th> <th>120V</th> </tr> </thead> <tbody> <tr> <td>50%</td> <td>0.925</td> <td>0.970</td> <td>0.995</td> </tr> <tr> <td>60%</td> <td>0.945</td> <td>0.975</td> <td>0.995</td> </tr> <tr> <td>70%</td> <td>0.955</td> <td>0.980</td> <td>0.995</td> </tr> <tr> <td>80%</td> <td>0.965</td> <td>0.985</td> <td>0.995</td> </tr> <tr> <td>90%</td> <td>0.970</td> <td>0.990</td> <td>0.995</td> </tr> <tr> <td>100%</td> <td>0.975</td> <td>0.995</td> <td>0.995</td> </tr> </tbody> </table>					LOAD	277V	230V	120V	50%	0.925	0.970	0.995	60%	0.945	0.975	0.995	70%	0.955	0.980	0.995	80%	0.965	0.985	0.995	90%	0.970	0.990	0.995	100%	0.975	0.995	0.995
LOAD	277V	230V	120V																													
50%	0.925	0.970	0.995																													
60%	0.945	0.975	0.995																													
70%	0.955	0.980	0.995																													
80%	0.965	0.985	0.995																													
90%	0.970	0.990	0.995																													
100%	0.975	0.995	0.995																													
9	TOTAL HARMONIC DISTORTION	THD < 20% ( @load ≥ 50%/120VAC, @load ≥ 60%/230VAC, @load ≥ 75%/277VAC )	I/P: 120 VAC/50% LOAD I/P: 230 VAC/60% LOAD I/P: 277 VAC/75% LOAD Ta: 25°C	THD=7.65% @50% load /120VAC THD=11.64% @60% load /230VAC THD=11.80% @75% load /277VAC																												
<p><b>THD vs LOAD</b></p> <table border="1"> <caption>THD vs Load Data</caption> <thead> <tr> <th>LOAD</th> <th>277V</th> <th>230V</th> <th>120V</th> </tr> </thead> <tbody> <tr> <td>50%</td> <td>15.5</td> <td>11.8</td> <td>8.5</td> </tr> <tr> <td>60%</td> <td>13.5</td> <td>10.5</td> <td>7.5</td> </tr> <tr> <td>70%</td> <td>12.0</td> <td>9.5</td> <td>6.5</td> </tr> <tr> <td>80%</td> <td>11.0</td> <td>8.5</td> <td>6.5</td> </tr> <tr> <td>90%</td> <td>10.5</td> <td>8.0</td> <td>6.5</td> </tr> <tr> <td>100%</td> <td>9.5</td> <td>7.5</td> <td>7.0</td> </tr> </tbody> </table>					LOAD	277V	230V	120V	50%	15.5	11.8	8.5	60%	13.5	10.5	7.5	70%	12.0	9.5	6.5	80%	11.0	8.5	6.5	90%	10.5	8.0	6.5	100%	9.5	7.5	7.0
LOAD	277V	230V	120V																													
50%	15.5	11.8	8.5																													
60%	13.5	10.5	7.5																													
70%	12.0	9.5	6.5																													
80%	11.0	8.5	6.5																													
90%	10.5	8.0	6.5																													
100%	9.5	7.5	7.0																													

**PROTECTION FUNCTION TEST**

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER CURRENT PROTECTION	95%~108%	I/P: 120VAC I/P: 230VAC I/P: 305VAC O/P: TESTING Ta: 25°C	100.1 %/ 120VAC 100.1 %/ 230VAC 100.1 %/ 305VAC Constant Current Limiting, recovers automatically after fault condition is removed
2	OVER VOLTAGE PROTECTION	41V~48V	I/P: 100VAC I/P: 230VAC I/P: 305VAC O/P: NO LOAD Ta: 25°C	43.80 V/ 100VAC 43.80 V/ 230VAC 43.74 V/ 305VAC Shut down output voltage, re-power on to recovery
3	OVER TEMPERATURE PROTECTION	NO DAMAGE	I/P: 120VAC I/P: 230VAC I/P: 305VAC O/P: FULL LOAD	O.T.P. Active Shut down output voltage with auto-recovery or re-power on to recover
4	SHORT CIRCUIT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P: 120VAC I/P: 305VAC O/P: FULL 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 800V/19.5A	I/P: High-Line +3V =308V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25°C	(1) 656 V (2) 532 V (3) 656 V
2	O/P Diode (MOSFET)	Q101 Rated 200V/20A	I/P: High-Line +3V =308V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25°C	(1) 146 V (2) 110 V (3) 146 V
3	Input Capacitor	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°C	(1) 448 V (2) 440 V (3) 448 V
4	Control IC	U1 Rated 28V (MAX.)	I/P: High-Line +3V =308 V O/P: ((1) FULL LOAD (2) Output Short (3) O.L.P (4) O.V.P (5) Low Line No Load Vo(min) Ta: 25°C	(1) 17.4 V (2) 15.2 V (3) 15.2 V (4) 17.4 V (5) 17.2 V
5	PFC Power Transistor	Q 1 Rated 600V/20A	I/P: High-Line +3V =308V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25°C	(1) 554 V (2) 438 V (3) 554 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: 4.125 KVAC/min I/P-FG: 2.4 KVAC/min O/P-FG: 1.8 KVAC/min Ta: 25°C	I/P-O/P: 2.238 mA I/P-FG: 2.375 mA O/P-FG: 1.678 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
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40A / 2min Ta:25°C	18 mΩ

## E.M.C TEST

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



## RELIABILITY TEST

### ENVIRONMENT TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT																																																																				
1	TEMPERATURE RISE TEST	MODEL: ELG-150U-48 1. ROOM AMBIENT BURN-IN: 2 HRS I/P: 230VAC O/P: FULL LOAD Ta=29.4 °C 2. HIGH AMBIENT BURN-IN: 2 HRS I/P: 230VAC O/P: FULL LOAD Ta=51.2 °C																																																																						
				<table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta=29.4 °C</th> <th>HIGH AMBIENT Ta=51.2 °C</th> </tr> </thead> <tbody> <tr><td>1</td><td>LF2</td><td>62.2°C</td><td>81.3°C</td></tr> <tr><td>2</td><td>L1</td><td>66.7°C</td><td>85.9°C</td></tr> <tr><td>3</td><td>C11</td><td>67.9°C</td><td>86.9°C</td></tr> <tr><td>4</td><td>BD1</td><td>65.6°C</td><td>84.3°C</td></tr> <tr><td>5</td><td>Q2</td><td>74.8°C</td><td>93.9°C</td></tr> <tr><td>6</td><td>D6</td><td>70.8°C</td><td>90.0°C</td></tr> <tr><td>7</td><td>D10</td><td>75.5°C</td><td>95.0°C</td></tr> <tr><td>8</td><td>U1</td><td>62.6°C</td><td>81.6°C</td></tr> <tr><td>9</td><td>C5</td><td>62.9°C</td><td>81.9°C</td></tr> <tr><td>10</td><td>T1</td><td>71.3°C</td><td>89.9°C</td></tr> <tr><td>11</td><td>Q101</td><td>68.5°C</td><td>87.2°C</td></tr> <tr><td>12</td><td>Q102</td><td>69.6°C</td><td>88.3°C</td></tr> <tr><td>13</td><td>C205</td><td>65.5°C</td><td>84.4°C</td></tr> <tr><td>14</td><td>C106</td><td>62.7°C</td><td>81.5°C</td></tr> <tr><td>15</td><td>TC</td><td>58.3°C</td><td>77.0°C</td></tr> <tr><td>16</td><td>TA</td><td>29.4°C</td><td>51.2°C</td></tr> </tbody> </table>	NO	Position	ROOM AMBIENT Ta=29.4 °C	HIGH AMBIENT Ta=51.2 °C	1	LF2	62.2°C	81.3°C	2	L1	66.7°C	85.9°C	3	C11	67.9°C	86.9°C	4	BD1	65.6°C	84.3°C	5	Q2	74.8°C	93.9°C	6	D6	70.8°C	90.0°C	7	D10	75.5°C	95.0°C	8	U1	62.6°C	81.6°C	9	C5	62.9°C	81.9°C	10	T1	71.3°C	89.9°C	11	Q101	68.5°C	87.2°C	12	Q102	69.6°C	88.3°C	13	C205	65.5°C	84.4°C	14	C106	62.7°C	81.5°C	15	TC	58.3°C	77.0°C	16	TA	29.4°C	51.2°C
NO	Position	ROOM AMBIENT Ta=29.4 °C	HIGH AMBIENT Ta=51.2 °C																																																																					
1	LF2	62.2°C	81.3°C																																																																					
2	L1	66.7°C	85.9°C																																																																					
3	C11	67.9°C	86.9°C																																																																					
4	BD1	65.6°C	84.3°C																																																																					
5	Q2	74.8°C	93.9°C																																																																					
6	D6	70.8°C	90.0°C																																																																					
7	D10	75.5°C	95.0°C																																																																					
8	U1	62.6°C	81.6°C																																																																					
9	C5	62.9°C	81.9°C																																																																					
10	T1	71.3°C	89.9°C																																																																					
11	Q101	68.5°C	87.2°C																																																																					
12	Q102	69.6°C	88.3°C																																																																					
13	C205	65.5°C	84.4°C																																																																					
14	C106	62.7°C	81.5°C																																																																					
15	TC	58.3°C	77.0°C																																																																					
16	TA	29.4°C	51.2°C																																																																					
2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P: 305VAC/120VAC/100VAC O/P: FULL LOAD/70% 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 50°C NO DAMAGE	I/P: 305VAC O/P: FULL LOAD Ta=50°C HUMIDITY= 95 %R.H	TEST: OK																																																																				
4	TEMPERATURE COEFFICIENT	±0.03 %/°C (0~60°C)	I/P: 230 VAC O/P: FULL LOAD	±0.007 %/°C (0~60°C)																																																																				
5	STORAGE TEMPERATURE TEST	1. Thermal shock Temperature: -45°C~ +85°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: Tcase=-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: 10 CYCLE 5. Input/Output condition: 230VAC/Full 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-150U-24: SUPPOSE C106 IS THE MOST CRITICAL COMPONENT (1) I/P: 230VAC O/P: FULL LOAD Tc= 75 °C LIFE TIME (2) I/P: 230VAC O/P: 75% LOAD Tc= 75 °C LIFE TIME (3) I/P: 230VAC O/P: 50% LOAD Tc= 75 °C LIFE TIME	(1) 81471 HRS (2) 94119 HRS (3) 105542 HRS
9	MTBF	Conducted by Parts Stress Analysis Prediction 2554.5K hrs min. Telcordia SR-332 (Bellcore); 252.4K 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	

TEST RESULT	TESTER	REVIEW	APPROVAL
PASS	WUWQ/ZHOUB	WENF	LIUWY