



# Test Report: ELG-150U-24

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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

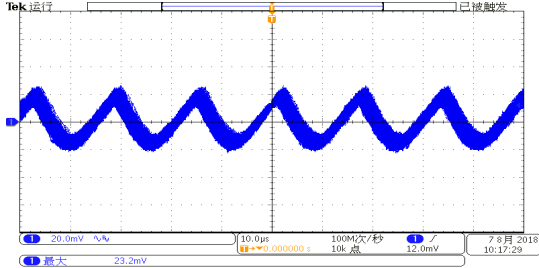
Environment Test

## DESIGN VERIFY TEST

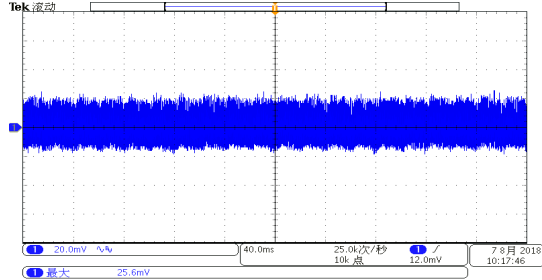
### OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	CONSTANT CURRENT REGION	12V~24V	I/P: 230VAC O/P: LED MODE Ta: 25°C	9V~ 24V
2	OUTPUT VOLTAGE ADJUST RANGE (For A-Type only)	21.6V~26.4V	I/P: 230VAC O/P: NO LOAD Ta: 25°C	19.69V~ 27.36V
3	OUTPUT CURRENT ADJUST RANGE (For A-Type only)	3.2A~6.25A (For A-Type only)	I/P: 230VAC O/P: SETTING Ta: 25°C	2.59A~7.26A
4	OUTPUT VOLTAGE TOLERANCE	-3%~+3%	I/P: 100VAC / 305VAC O/P: FULL/ NO LOAD Ta: 25°C	-0.58%~ 1.00%
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	-0.21%~ 0%
7	OVER/UNDERSHOOT TEST	<± 5 %	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	± 1.66%
8	RIPPLE & NOISE (Max)	200mVp-p	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	25.6mVp-p

high frequency :



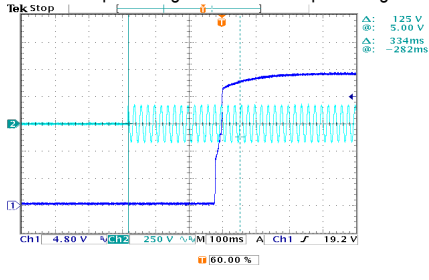
low frequency :



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/ 334 ms 230VAC/ 388 ms
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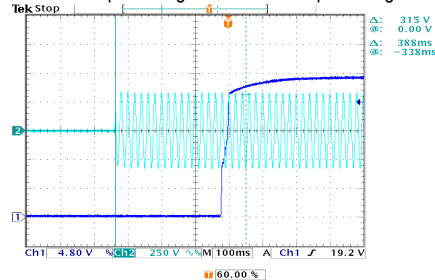
INPUT=120VAC/50HZ @ FULL LOAD

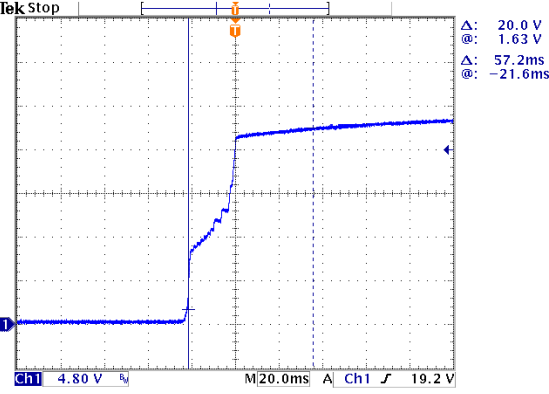
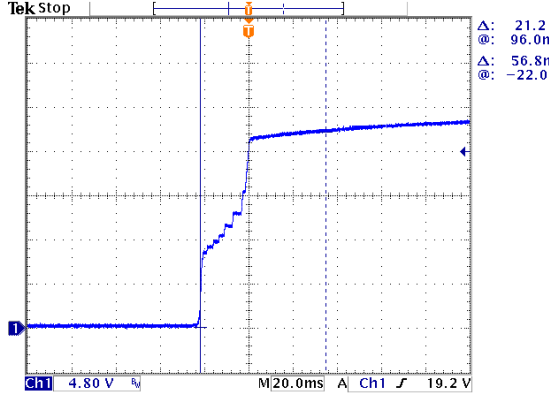
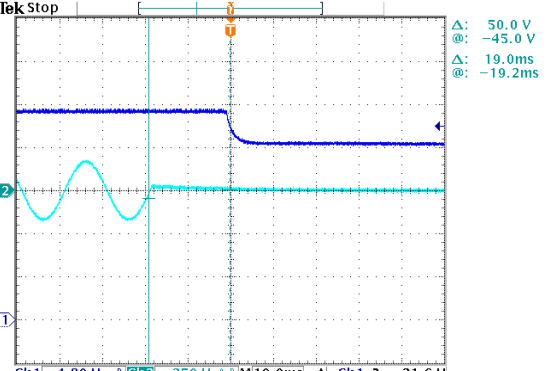
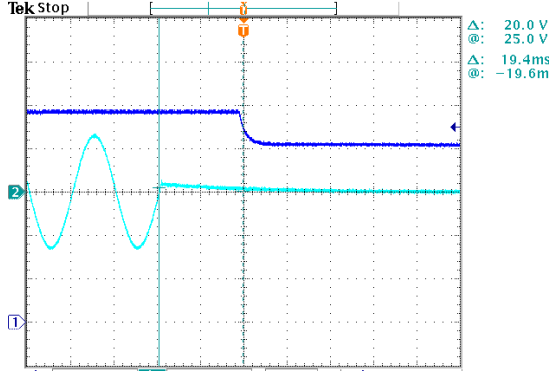
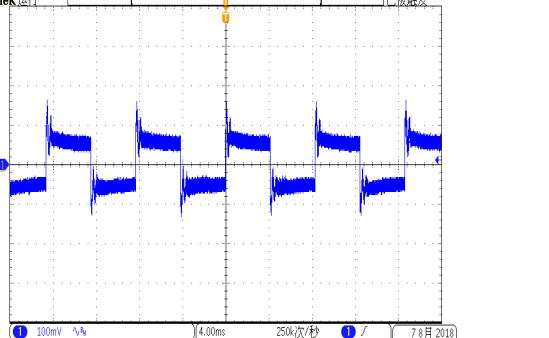
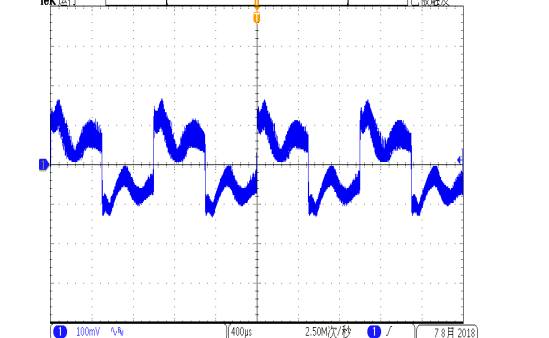
CH1: Output Voltage CH2: AC Input Voltage



INPUT=230VAC/50HZ @ FULL LOAD

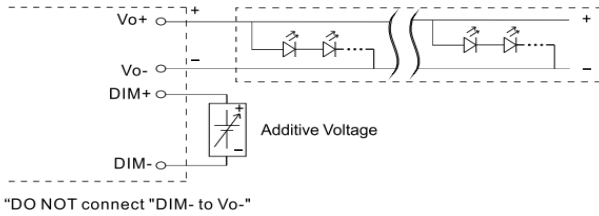
CH1: Output Voltage CH2: AC Input Voltage



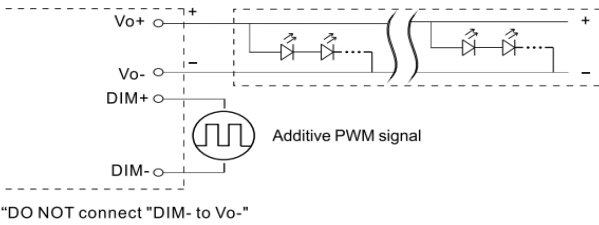
<p>10 RISE TIME (Max)</p>	<p>120VAC/ 80ms 230VAC/ 100ms</p>	<p>I/P: 120 VAC I/P: 230 VAC O/P: FULL LOAD Ta: 25°C</p>	<p>120VAC/ 57.2 ms 230VAC/ 56.8 ms</p>
<p>INPUT=120VAC/50HZ @ FULL LOAD CH1: Output Voltage</p>  <p>Δ: 20.0 V @: 1.63 V Δ: 57.2ms @: -21.6ms</p>		<p>INPUT=230VAC/50HZ @ FULL LOAD CH1: Output Voltage</p>  <p>Δ: 21.2 V @: 96.0mV Δ: 56.8ms @: -22.0ms</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/ 19.0 ms 230VAC/ 19.4 ms</p>
<p>INPUT=120VAC/50HZ @ FULL LOAD CH1: Output Voltage CH2: AC Input Voltage</p>  <p>Δ: 50.0 V @: -45.0 V Δ: 19.0ms @: -19.2ms</p>		<p>INPUT=230VAC/50HZ @ FULL LOAD CH1: Output Voltage CH2: AC Input Voltage</p>  <p>Δ: 20.0 V @: 25.0 V Δ: 19.4ms @: -19.6ms</p>	
<p>12 DYNAMIC LOAD</p>	<p>V1: 2400 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) 164mVp-p (2) 152mVp-p</p>
<p>FULL /50% LOAD 50%DUTY / 120HZ</p>  <p>100mV 4.00ms 250次/秒 10k点 7月2018 10:20:05</p> <p>最大 164mV</p>		<p>FULL /50% LOAD 50%DUTY / 1KHZ</p>  <p>100mV 400μs 2.50M次/秒 10k点 7月2018 10:19:20</p> <p>最大 152mV</p>	

13 DIMMING TEST  
(For B-Type only)

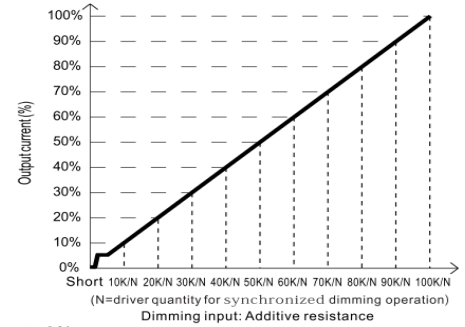
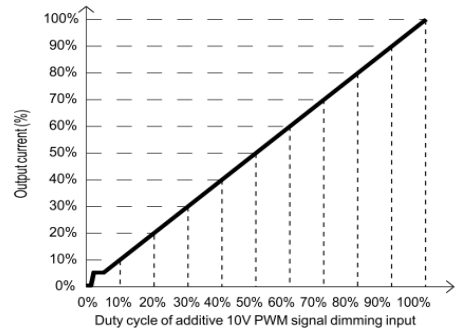
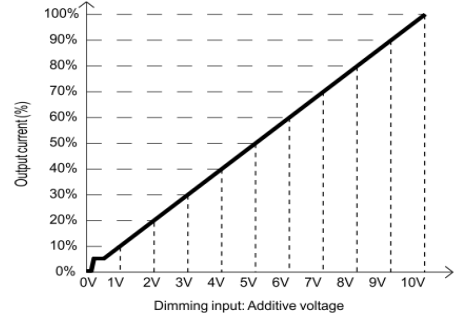
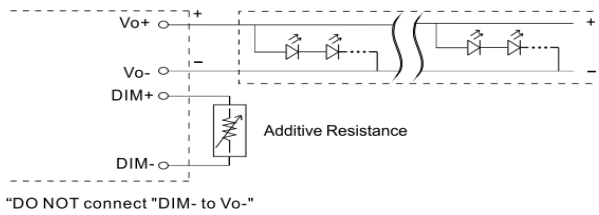
- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 10Vdc, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100uA (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	0.78A	1.40A	2.02A	2.65A	3.28A	3.92A	4.55A	5.21A	5.80A	6.24A	6.25A
	%	0%	12.48%	22.4%	32.32%	42.4%	52.48%	62.72%	72.8%	83.36%	92.8%	99.84%	100%
	v	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
2	Output Current	0	0.79A	1.40A	1.97A	2.58A	3.17A	3.78A	4.38A	4.96A	5.55A	6.13A	6.25A
	%	0%	12.64%	22.4%	31.52%	41.28%	50.72%	60.48%	70.08%	79.36%	88.8%	98.08%	100%
	PWM(100Hz)	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
3	Output Current	0	0.77A	1.37A	1.97A	2.57A	3.17A	3.76A	4.35A	4.96A	5.54A	6.13A	6.24A
	%	0%	12.32%	21.92%	31.52%	41.12%	50.72%	60.16%	69.6%	79.36%	88.64%	98.08%	99.84%

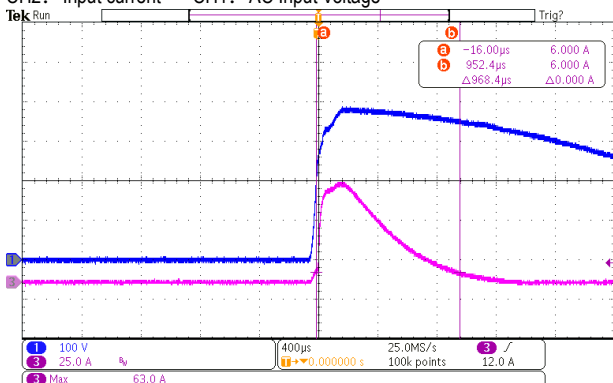
TEST RESULT: OK

## 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 = 0.58 A/ 277VAC I = 0.69 A/ 230VAC I = 1.32 A/ 120VAC
4	LEAKAGE CURRENT	< 0.75mA / 277VAC	I/P: 277 VAC O/P: NO LOAD Ta: 25°C	L-FG: 0.444 mA N-FG: 0.410 mA
5	NO LOAD/STANDBY POWER CONSUMPTION	< 0.5W	I/P: 230VAC O/P: NO LOAD Ta: 25°C	0.165 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 = 63A/ 277VAC Twidth =952 us/10% Ipeak

INPUT=277VAC/50HZ @ FULL LOAD

CH2: Input current CH1: AC Input Voltage



7	EFFICIENCY(Typ)	89%	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	91.16%																												
<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>90.0</td><td>89.5</td><td>90.0</td></tr> <tr><td>60%</td><td>90.5</td><td>90.0</td><td>90.0</td></tr> <tr><td>70%</td><td>91.0</td><td>90.5</td><td>90.0</td></tr> <tr><td>80%</td><td>91.5</td><td>91.0</td><td>90.0</td></tr> <tr><td>90%</td><td>91.8</td><td>91.5</td><td>90.0</td></tr> <tr><td>100%</td><td>91.16</td><td>91.16</td><td>90.0</td></tr> </tbody> </table>					Load (%)	277V (%)	230V (%)	120V (%)	50%	90.0	89.5	90.0	60%	90.5	90.0	90.0	70%	91.0	90.5	90.0	80%	91.5	91.0	90.0	90%	91.8	91.5	90.0	100%	91.16	91.16	90.0
Load (%)	277V (%)	230V (%)	120V (%)																													
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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= 0.975 / 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>0.92</td><td>0.965</td><td>0.995</td></tr> <tr><td>60%</td><td>0.94</td><td>0.975</td><td>0.995</td></tr> <tr><td>70%</td><td>0.955</td><td>0.98</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>0.97</td><td>0.99</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%	0.92	0.965	0.995	60%	0.94	0.975	0.995	70%	0.955	0.98	0.995	80%	0.965	0.985	0.995	90%	0.97	0.99	0.995	100%	0.975	0.995	0.995
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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=6.82% @50% load /120VAC THD=14.26% @60% load /230VAC THD=12.81% @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>16.0</td><td>14.26</td><td>6.82</td></tr> <tr><td>60%</td><td>14.5</td><td>12.0</td><td>6.0</td></tr> <tr><td>70%</td><td>13.0</td><td>10.5</td><td>5.5</td></tr> <tr><td>80%</td><td>11.5</td><td>9.5</td><td>5.5</td></tr> <tr><td>90%</td><td>10.5</td><td>8.5</td><td>5.5</td></tr> <tr><td>100%</td><td>10.0</td><td>8.0</td><td>6.82</td></tr> </tbody> </table>					Load (%)	277V (%)	230V (%)	120V (%)	50%	16.0	14.26	6.82	60%	14.5	12.0	6.0	70%	13.0	10.5	5.5	80%	11.5	9.5	5.5	90%	10.5	8.5	5.5	100%	10.0	8.0	6.82
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## 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	101.28 %/ 120VAC 101.28 %/ 230VAC 101.28 %/ 305VAC Constant Current Limiting, recovers automatically after fault condition is removed
2	OVER VOLTAGE PROTECTION	28V~34V	I/P: 100VAC I/P: 230VAC I/P: 305VAC O/P: NO LOAD Ta: 25°C	31.4 V/ 100VAC 31.4 V/ 230VAC 31.37 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) 680 V (2) 550 V (3) 680 V
2	O/P Diode (MOSFET)	Q101 Rated 120V/56A	I/P: High-Line +3V =308V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25°C	(1) 83 V (2) 74 V (3) 83 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) 446 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) 17.2 V (2) 15.4 V (3) 15.4 V (4) 16.8 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) 484 V (2) 452 V (3) 484 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: 2.642 mA I/P-FG: 2.589 mA O/P-FG: 2.351 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	16 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-24 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																																																																						
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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	±0.016 %/°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