



Test Report: ELGT-150-C1050

105~150W Class II 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



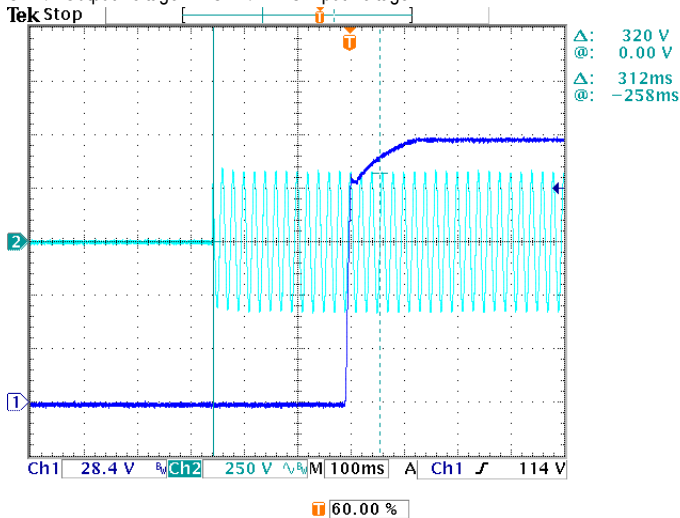
■ DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OUTPUT CURRENT ADJUST RANGE (For A-Type only)	525mA~1050mA	I/P: 230VAC O/P: LED MODE Ta: 25°C	0.363A~1.071A
2	OUTPUT CURRENT TOLERANCE	±5%	I/P: 230VAC O/P: FULL/ MIN LOAD Ta: 25°C	±1.06 %
3	CURRENT RIPPLE	5.0% max.@rated current	I/P: 230VAC O/P: LED MODE Ta: 25°C	3.43%
4	CONSTANT CURRENT REGION	72V~143V	I/P: 230VAC O/P: LED MODE Ta: 25°C	30V~143V
5	OPEN CIRCUIT VOLTAGE (Max)	151V	I/P: 230VAC O/P: NO LOAD Ta: 25°C	146V
6	OVER/UNDERSHOOT TEST	<±5 %	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	<5 %
7	SET UP TIME(Max)	230VAC/ 500ms 115VAC/1600ms	I/P: 230 VAC/115VAC O/P: FULL/70% LOAD Ta: 25°C	230VAC/ 312ms 115VAC/ 320ms

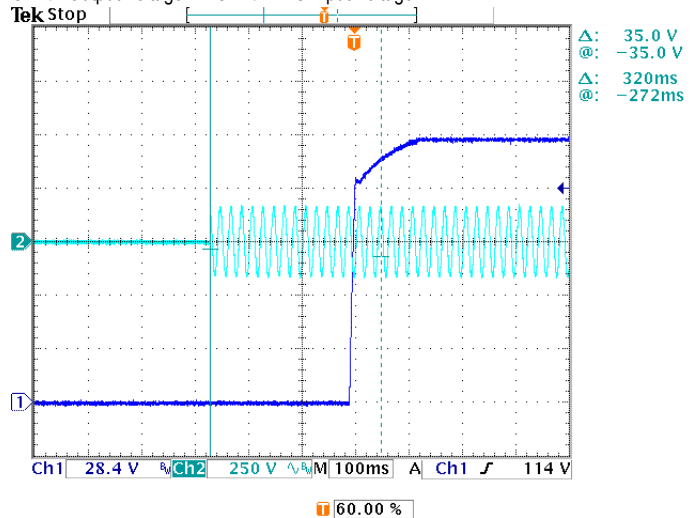
INPUT=230VAC/50HZ @ FULL LOAD

CH1: Output Voltage CH2: AC Input Voltage



INPUT=115VAC/60HZ @ 70 LOAD

CH1: Output Voltage CH2: AC Input Voltage

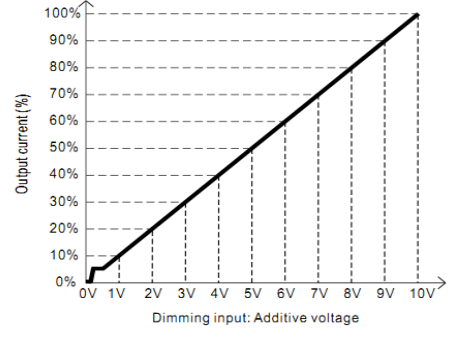
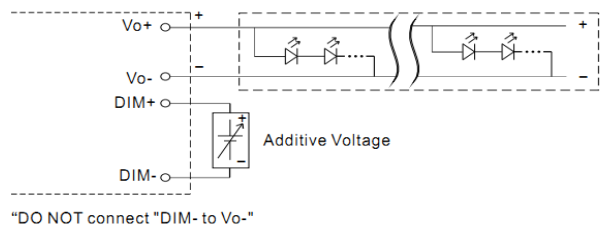


8 DIMMING TEST (For B-Type only)

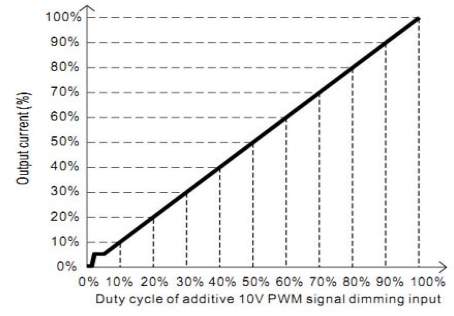
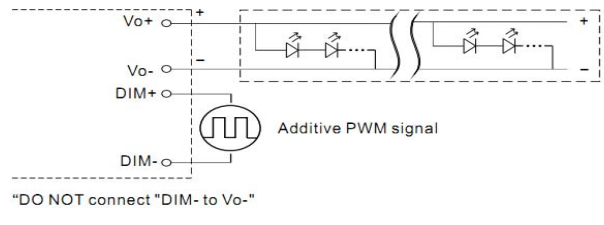
※ 3 in 1 dimming function (for B-Type)

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: 100 μ A (typ.)

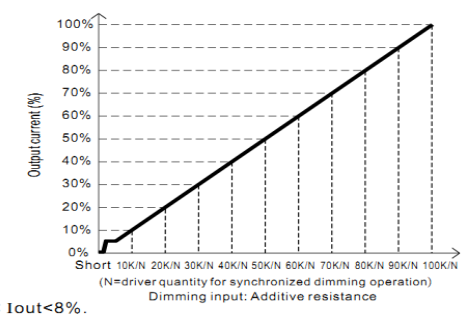
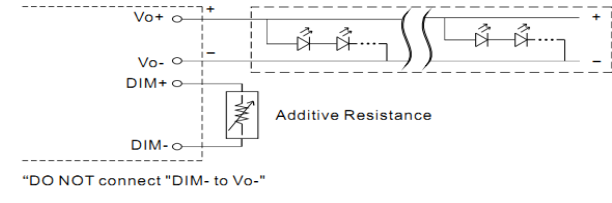
◎ Applying additive 0 ~ 10VDC



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



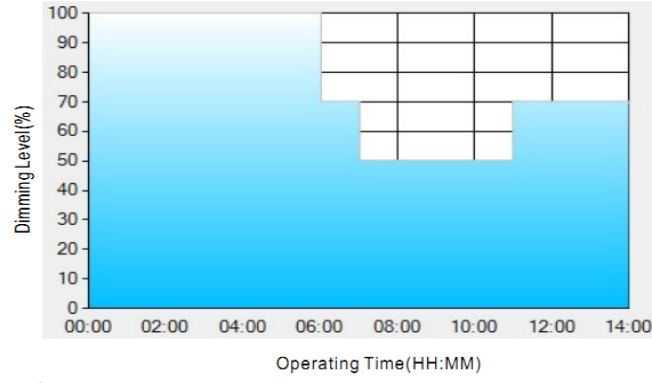
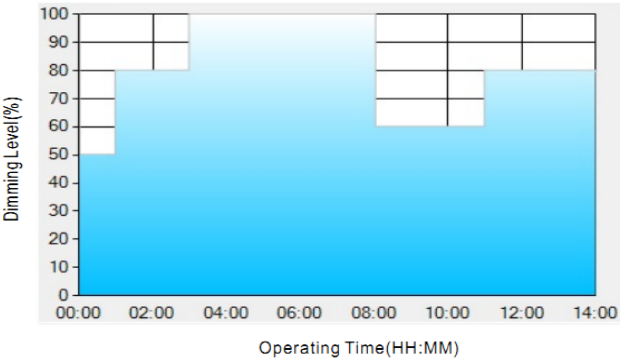
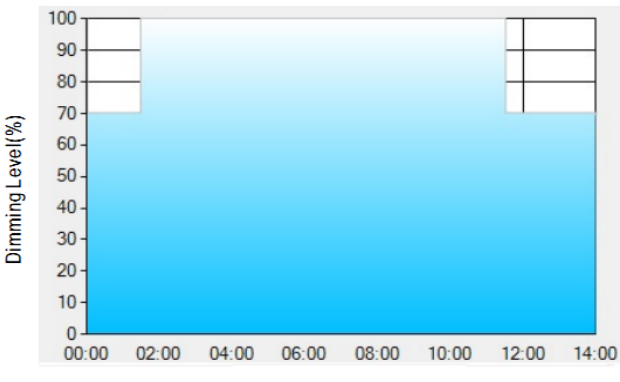
◎ Applying additive resistance:



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 0k Ω or 0Vdc, or 10V PWM signal with 0% duty cycle.

I/P: 230 VAC; Ta: 25 $^{\circ}$ C

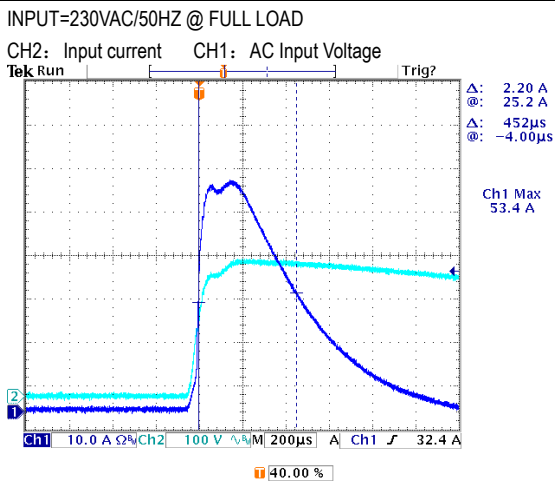
1	v	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
	Output Current	0	0.12	0.224	0.325	0.43	0.532	0.639	0.742	0.843	0.947	1.049	1.064
%	0%	11.43%	21.33%	30.95%	40.95%	50.67%	60.86%	70.67%	80.29%	90.19%	99.90%	101.33%	
2	PWM(100Hz)	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
	Output Current	0	0.111	0.213	0.316	0.417	0.519	0.621	0.723	0.826	0.929	1.023	1.064
	%	0%	10.57%	20.29%	30.10%	39.71%	49.43%	59.14%	68.86%	78.67%	88.48%	97.43%	101.33%
3	Resistance value	Short	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	OPEN
	Output Current	0	0.119	0.224	0.329	0.433	0.537	0.641	0.744	0.847	0.949	1.05	1.065
	Percentage of rated current	0%	11.33%	21.33%	31.33%	41.24%	51.14%	61.05%	70.86%	80.67%	90.38%	100.00%	101.43%

<p>9</p>	<p>DALI 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.</p> <p>I/P: 230 VAC O/P: DIMMING TEST Ta: 25°C TEST RESULT: OK</p>																																													
<p>10</p>	<p>DIMMING OPERATION (for D2-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 details.</p> <p>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="997 784 1524 918"> <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="925 1198 1540 1332"> <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="1013 1624 1444 1780"> <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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INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	100VAC~305VAC	I/P: TESTING O/P: 70%/FULL LOAD Ta: 25°C	97V-305V
			I/P: (1)LOW-LINE-3V=97 V HIGH-LINE+10V=315 V O/P: 70%/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~MIN LOAD Ta: 25°C	TEST: OK
3	AC CURRENT	0.7A/277VAC 0.9A/230VAC 1.7A/115VAC	I/P: 277 VAC I/P: 230 VAC I/P: 115 VAC O/P: FULL/70% LOAD Ta: 25°C	I=0.591A/ 277VAC I=0.708A/ 230VAC I=1.007A/ 115VAC
4	LEAKAGE CURRENT	< 0.7mA / 240VAC	I/P: 240VAC O/P: NO LOAD Ta: 25°C	L-FG: 0.353 mA N-FG: 0.319 mA
5	NO LOAD/STANDBY POWER CONSUMPTION	< 0.5W for Blank/A/D2-Type < 0.5W for B/DA-Type	I/P: 230VAC O/P: NO LOAD Ta: 25°C	0.232W/ 230VAC 0.223W/ 230VAC
6	INRUSH CURRENT(Typ)	230V/ 65A Twidth =485 us measured at 50% Ipeak COLD START	I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	I=53.4A/ 230VAC Twidth =452us





7	EFFICIENCY(Typ)	92%	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	93.0%																												
<p>EFFICIENCY vs LOAD</p> <table border="1"> <caption>Efficiency vs Load Data</caption> <thead> <tr> <th>LOAD (%)</th> <th>277V (%)</th> <th>230V (%)</th> <th>115V (%)</th> </tr> </thead> <tbody> <tr> <td>50%</td> <td>92.0</td> <td>92.0</td> <td>90.5</td> </tr> <tr> <td>60%</td> <td>92.5</td> <td>92.5</td> <td>90.5</td> </tr> <tr> <td>70%</td> <td>92.8</td> <td>92.8</td> <td>90.5</td> </tr> <tr> <td>80%</td> <td>93.0</td> <td>93.0</td> <td>90.5</td> </tr> <tr> <td>90%</td> <td>93.0</td> <td>93.0</td> <td>90.5</td> </tr> <tr> <td>100%</td> <td>93.0</td> <td>93.0</td> <td>90.5</td> </tr> </tbody> </table>					LOAD (%)	277V (%)	230V (%)	115V (%)	50%	92.0	92.0	90.5	60%	92.5	92.5	90.5	70%	92.8	92.8	90.5	80%	93.0	93.0	90.5	90%	93.0	93.0	90.5	100%	93.0	93.0	90.5
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8	POWER FACTOR	0.92/ 277VAC 0.95/ 230VAC 0.97/115VAC	I/P: 277 VAC I/P: 230 VAC I/P: 115 VAC O/P: FULL/70% LOAD Ta: 25°C	PF=0.976/ 277VAC PF=0.991/ 230VAC PF=0.998/ 115VAC																												
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9	TOTAL HARMONIC DISTORTION	THD < 20% (@load ≥ 50% 115VAC; @load ≥ 60% 230VAC; @load ≥ 75% / 277VAC)	I/P: 115 VAC/50% LOAD I/P: 230 VAC/60% LOAD I/P: 277 VAC/75% LOAD Ta: 25°C	THD=4.73% @50% load /115VAC THD=9.12% @60% load /230VAC THD=9.82% @75% load /277VAC																												
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**PROTECTION FUNCTION TEST**

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER VOLTAGE PROTECTION	155V~180V	I/P: 230VAC O/P: NO LOAD Ta: 25°C	169.39V/ 230VAC Shut down o/p voltage, re-power on to recover
2	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
3	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P: 305VAC I/P: 100VAC O/P: FULL/70% 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 Transistor (D to S) or (C to E) Peak Voltage	Q 2 Rated 800V/9A	I/P: High-Line +3V =308V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25°C	(1) 728V (2) 470V (3) 709V
2	Diode Peak Voltage	D100 Rated 600V/10A	I/P: High-Line +3V =308V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25°C	(1) 450V (2) 280V (3) 440V
3	Input Capacitor Voltage	C5 Rated 100u/ 450V	I/P: High-Line +3V =308 V O/P: (1) Full Load input on/off (2) Min load input on /Off (3) Full Load /Min load Change Ta: 25°C	(1) 444V (2) 440V (3) 444V
4	Control IC Voltage Test	U1 Rated 28V (MAX.)	I/P: High-Line +3V =308 V O/P: (1) Full Load input on/off (2) Min load input on /Off (3) Full Load /Min load Change Ta: 25°C	(1) 17.7V (2) 14.5V (3) 17.7V
5	PFC Transistor (D to S) or (C to E) Peak Voltage	Q 1 Rated 600V/10A	I/P: High-Line +3V =308V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25°C	(1) 507V (2) 436V (3) 486V

**SAFETY TEST**

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC/min I/P- CASE : 3.75KVAC/min O/P- CASE: 1.5KVAC/min	I/P-O/P: 4.2 KVAC/min I/P- CASE: 4.2 KVAC/min O/P- CASE: 1.8 KVAC/min Ta: 25°C	I/P-O/P: 1.632mA I/P- CASE: 2.187mA O/P- CASE: 1.766mA NO DAMAGE
2	ISOLATION RESISTANCE	I/P-O/P: 500VDC>100MΩ I/P- CASE: 500VDC>100MΩ O/P- CASE: 500VDC>100MΩ	I/P-O/P: 500 VDC I/P- CASE: 500 VDC O/P- CASE: 500 VDC Ta: 25°C	I/P-O/P: >9999MΩ I/P- CASE: >9999MΩ O/P- CASE: >9999MΩ

E.M.C TEST

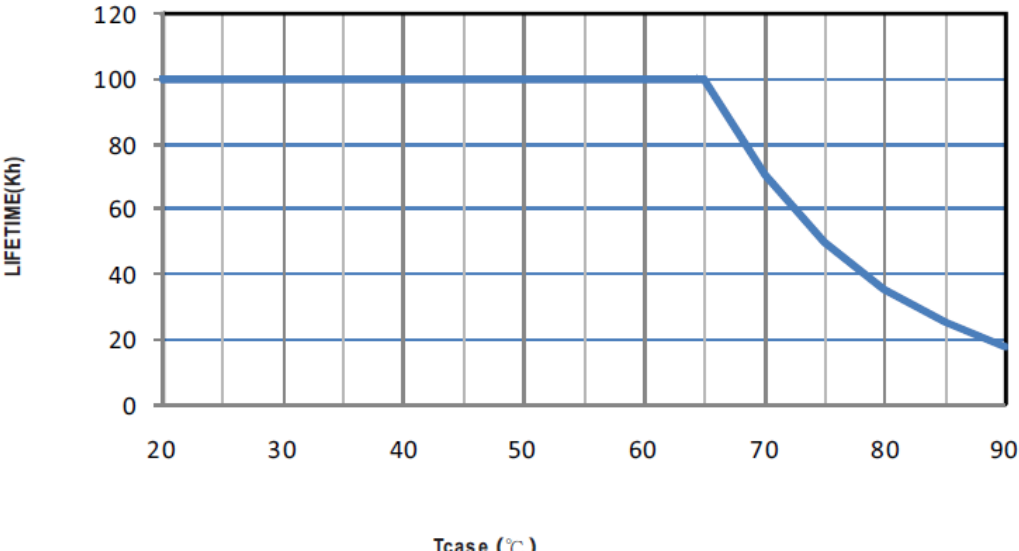
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	HARMONIC	EN61000-3-2 CLASS C	I/P: 230 VAC/50HZ O/P: FULL/60%LOAD Ta: 25°C	PASS
2	CONDUCTION	EN55015	I/P: 230 VAC (50HZ) O/P: FULL LOAD Ta: 25°C	PASS Test by certified Lab
3	RADIATION	EN55015	I/P: 230 VAC (50HZ) O/P: FULL LOAD Ta: 25°C	PASS Test by certified 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	PASS
5	E.F.T	EN61000-4-4 LIGHT INDUSTRY INPUT: 1KV	I/P: 230VAC/50HZ O/P: FULL LOAD Ta: 25°C	PASS
6	SURGE	EN61000-4-5 INDUSTRY L-N: 4KV L,N- CASE: 6KV	I/P: 230VAC/50HZ O/P: FULL LOAD L-N: 4KV L,N- CASE: 6KV Ta: 25°C	PASS
7	Test by certified Lab & Test Report Prepare			

RELIABILITY TEST

ENVIRONMENT TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT																																																																				
1	TEMPERATURE RISE TEST	MODEL: ELGT-150-C1050 1. ROOM AMBIENT BURN-IN: 2 HRS I/P: 230VAC O/P: FULL LOAD Ta= 31.2°C 2. HIGH AMBIENT BURN-IN: 2 HRS I/P: 230VAC O/P: FULL LOAD Ta= 63.2°C																																																																						
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2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P: 305VAC/200VAC O/P: FULL LOAD Ta= -45°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: FULL LOAD Ta=60 °C HUMIDITY= 95 %R.H	TEST: OK																																																																				
4	TEMPERATURE COEFFICIENT	±0.03 %/°C (0~60°C)	I/P: 230 VAC O/P: FULL LOAD	±0.003%/°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: -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/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	ELGT-150-C1050: SUPPOSE C102 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= 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) 491401 HRS (2) 49581 HRS (3) 76723 HRS (4) 95139 HRS																				
9	MTBF	Conducted by Parts Stress Analysis Prediction 1098.95K hrs min. Telcordia SR-332 (Bellcore) 308.5K hrs min. MIL-HDBK-217F (25°C)																					
10	DMTBF/Accelerated Life Test	Demonstration Mean Time Between Failure (Expected Life): Above 50000 hours @ Tc 75°C  <table border="1" data-bbox="438 907 1460 1456"> <caption>Graph Data: Lifetime (Kh) vs Tcase (°C)</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>65</td><td>100</td></tr> <tr><td>70</td><td>70</td></tr> <tr><td>80</td><td>40</td></tr> <tr><td>90</td><td>20</td></tr> </tbody> </table>		Tcase (°C)	Lifetime (Kh)	20	100	30	100	40	100	50	100	60	100	65	100	70	70	80	40	90	20
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TEST RESULT	TESTER	REVIEW	APPROVAL
PASS	SHENJW/ZHUOKB	SKY	LIUWY