



■ Features :

- Universal AC input / Full range (up to 295VAC)
- High efficiency 90%
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in active PFC function
- IP64 design for indoor or outdoor installations
- UL1310 Class 2 power unit
- Pass LPS
- Cooling by free air convection
- 100% full load burn-in test
- High reliability
- Suitable for LED lighting and moving sign applications
- Suitable for dry / damp locations
- Compliance to worldwide safety regulations for lighting
- 2 years warranty

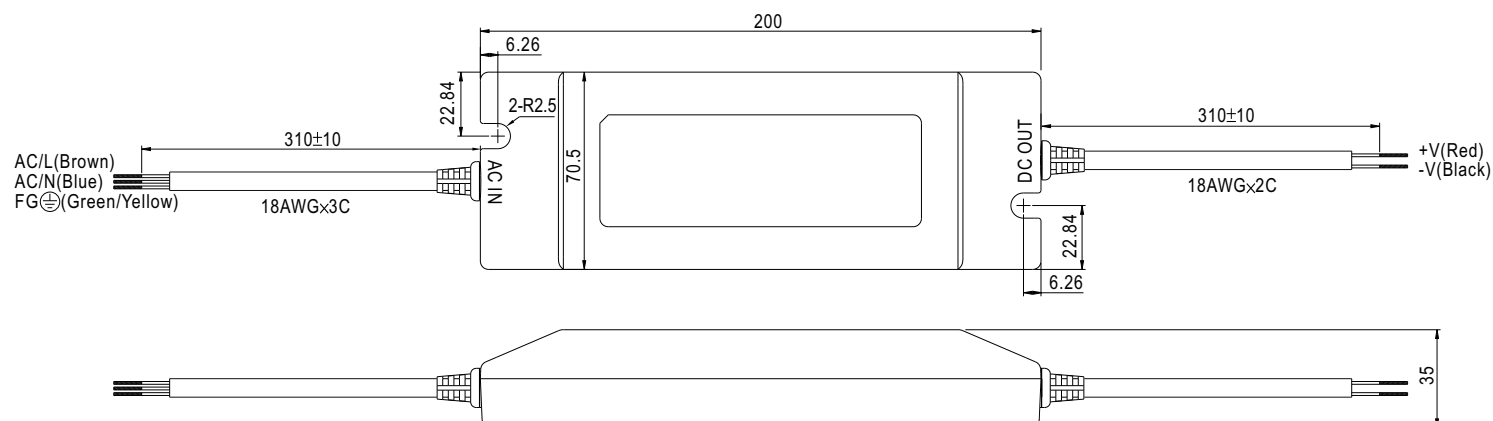


SPECIFICATION

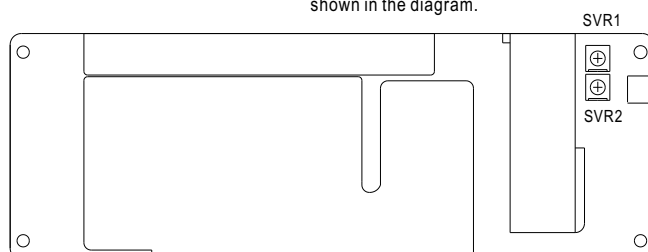
MODEL		PLN-100-12	PLN-100-15	PLN-100-20	PLN-100-24	PLN-100-27	PLN-100-36	PLN-100-48
OUTPUT	DC VOLTAGE	12V	15V	20V	24V	27V	36V	48V
	CONSTANT CURRENT REGION Note.6	9 ~ 12V	11.25 ~ 15V	15 ~ 20V	18 ~ 24V	20.25 ~ 27V	27 ~ 36V	36 ~ 48V
	RATED CURRENT Note.5	5A	5A	4.8A	4A	3.55A	2.65A	2A
	RATED POWER Note.5	60W	75W	96W	96W	95.85W	95.4W	96W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p
	VOLTAGE ADJ. RANGE (SVR1)	10.2 ~ 12V	12.8 ~ 15V	17 ~ 20V	20.4 ~ 24V	23 ~ 27V	30.6 ~ 36V	40.8 ~ 48V
	CURRENT ADJ. RANGE (SVR2)	3.75 ~ 5A	3.75 ~ 5A	3.6 ~ 4.8A	3 ~ 4A	2.6 ~ 3.55A	2 ~ 2.65A	1.5 ~ 2A
	VOLTAGE TOLERANCE Note.3	±3.0%	±3.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%
	LINE REGULATION	±1.0%						
	LOAD REGULATION	±2.0%						
	SETUP, RISE TIME	1200ms, 80ms/230VAC 1200ms, 80ms/115VAC at full load						
HOLD UP TIME (Typ.)	60ms/230VAC 30ms/115VAC at full load							
INPUT	VOLTAGE RANGE Note.4	90 ~ 295VAC 127 ~ 417VDC						
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.95/115VAC at full load PF≥0.9 at 75 ~ 100% load						
	EFFICIENCY (Typ.)	84.5%	86.5%	90%	90%	90%	90%	89%
	AC CURRENT (Typ.)	12V:0.8A/115VAC 0.4A/230VAC 15V:0.9A/115VAC 0.45A/230VAC 20V ~ 48V:1.1A/115VAC 0.55A/230VAC						
	INRUSH CURRENT (Typ.)	COLD START 40A/230VAC						
	LEAKAGE CURRENT	<0.75mA / 240VAC						
PROTECTION	OVER CURRENT	95 ~ 102% Protection type : Constant current limiting, recovers automatically after fault condition is removed						
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed						
	OVER VOLTAGE	13 ~ 16V	16.5 ~ 20V	22 ~ 27V	27 ~ 34V	30 ~ 36V	39 ~ 48V	52 ~ 64V
		Protection type : Shut down and latch off o/p voltage, re-power on to recover						
	OVER TEMPERATURE	90℃ ±10℃ (RTH2) Protection type : Shut down o/p voltage, re-power on to recover						
ENVIRONMENT	WORKING TEMP.	-30 ~ +50℃ (Refer to output load derating curve)						
	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)						
	VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes						
SAFETY & EMC	SAFETY STANDARDS Note.7	UL879, UL8750, UL1310 Class 2, TUV EN60950-1, EN61347-1, EN61347-2-13 independent CAN/CSA C22.2 No. 223-M91(except for 48V), IP64 approved						
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC						
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25℃ / 70% RH						
	EMI CONDUCTION & RADIATION	Compliance to EN55015, EN55022 (CISPR22) Class B						
	HARMONIC CURRENT	Compliance to EN61000-3-2 Class C (>75% load) ; EN61000-3-3						
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61547, EN55024, light industry level (surge 4KV), criteria A						
OTHERS	MTBF	303.1Khrs min. MIL-HDBK-217F (25℃)						
	DIMENSION	200*70.5*35mm (L*W*H)						
	PACKING	0.52Kg; 20pcs/12.5Kg/0.76CUFT						
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Derating may be needed under low input voltage. Please check the static characteristics for more details. 5. This is the maximum possible output current and power. Over load protection may be activated slightly below this level to comply with the requirement of UL1310 class 2. 6. Constant current operation region is within 75% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design. 7. Safety and EMC design refer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18. 8. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.							

Mechanical Specification

Case No.955A Unit:mm



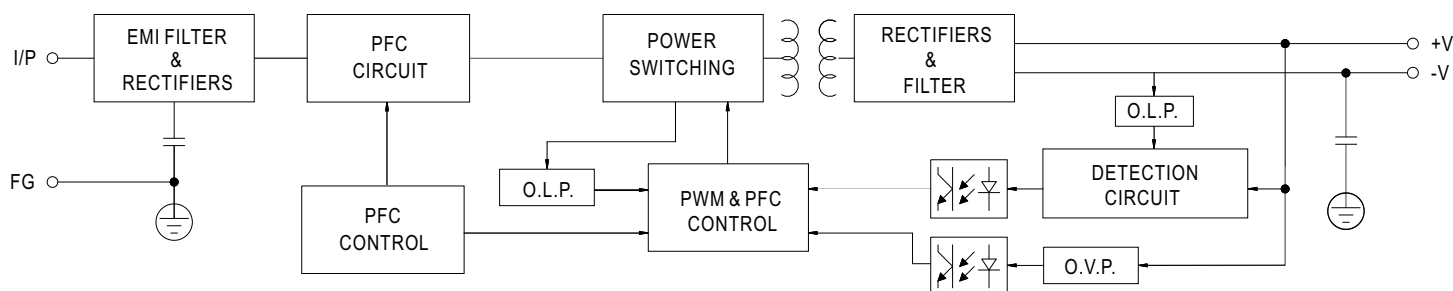
Output voltage and current adjustment : remove the upper case and adjust through SVR1 & SVR2 shown in the diagram.



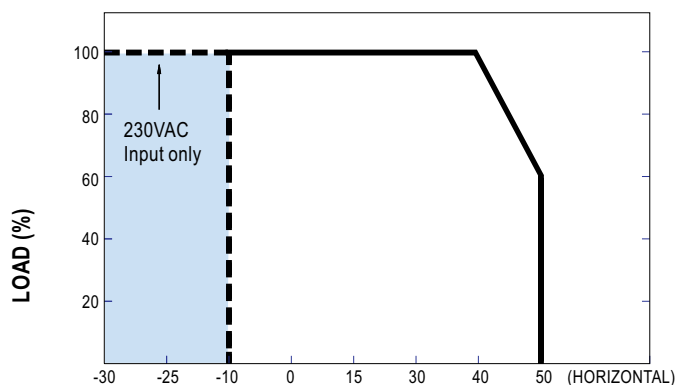
SVR1	Output voltage adjustment
SVR2	Output current adjustment

Block Diagram

Fosc : 100KHz



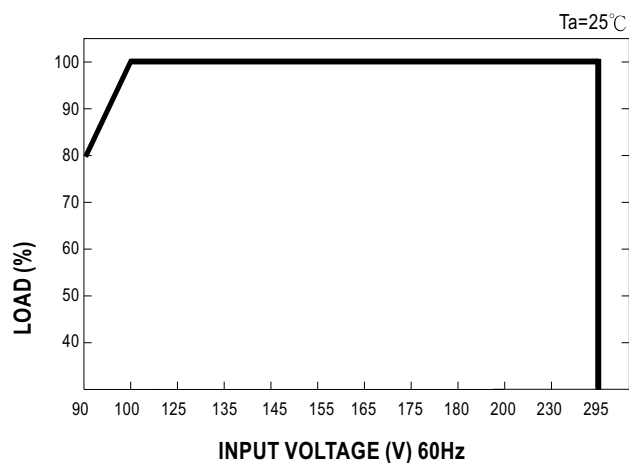
Derating Curve



AMBIENT TEMPERATURE ($^{\circ}\text{C}$)

※ -30°C start up possible for 230VAC input

Static Characteristics

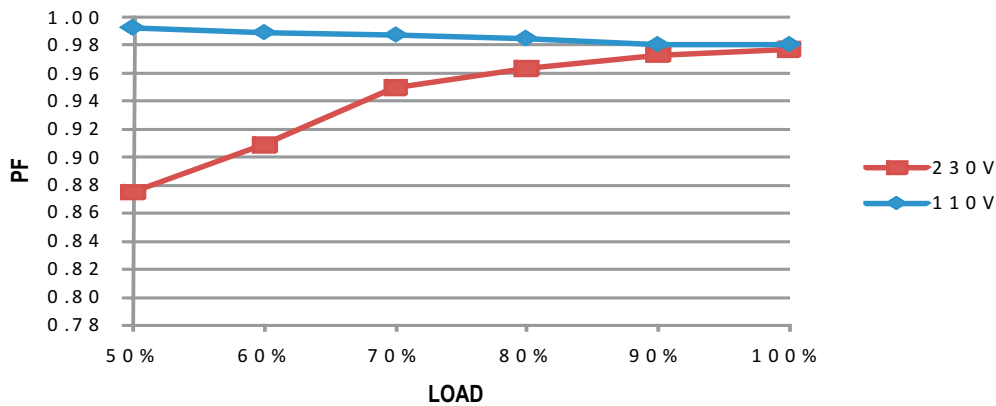


INPUT VOLTAGE (V) 60Hz

Power Factor Characteristic

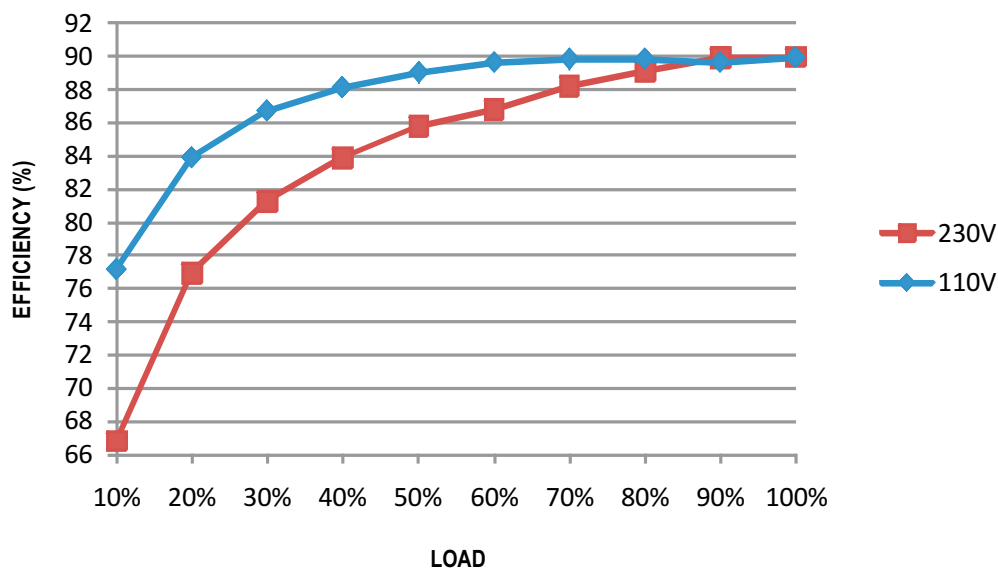
Power factor will be higher than 0.9 when output loading is 75% or higher.

Constant Current Mode



EFFICIENCY vs LOAD (48V Model)

PLN-100 series possess superior working efficiency that up to 89% can be reached in field applications.

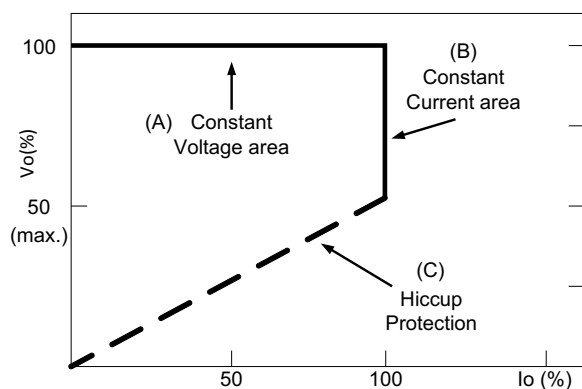


DRIVING METHODS OF LED MODULE

There are two major kinds of LED drive method "direct drive" and "with LED driver".

A typical LED power supply may either work in "constant voltage mode (CV) or constant current mode (CC)" to drive the LEDs.

Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode [with LED driver, at area (A)] and CC mode [direct drive, at area (B)].



Typical LED power supply I-V curve

MODEL : PLN-100-27

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	RIPPLE & NOISE	V1: 150 mVp-p (Max)	I/P: 230VAC O/P: 95% LOAD Ta:25°C	V1: 25 mVp-p (Max)	P
2	OUTPUT CURRENT ADJUST RANGE	CH1: 22.95V~27 V	I/P: 230 VAC I/P: 115 VAC Ta:25°C	21.71V~ 27.56 V/ 230 VAC 21.71V~ 27.56 V/ 115 VAC	P
3	OUTPUT CURRENT ADJUST RANGE	CH1: 3.6565 A~2.6625A	I/P: 230 VAC I/P: 115 VAC Ta:25°C	2.51 A~ 4.33 A/ 230 VAC 2.49 A~ 4.35 A/ 115 VAC	P
4	OUTPUT VOLTAGE TOLERANCE	V1: 3 %~ -3 % (Max)	I/P: 100 VAC / 295 VAC O/P: 95% LOAD / MIN LOAD Ta:25°C	V1: 0.26 %~ -0.26 %	P
5	LINE REGULATION	V1: 1 %~ -1 % (Max)	I/P: 100VAC ~ 295 VAC O/P: 95% LOAD Ta:25°C	V1: 0.03 %~ -0.03 %	P
6	LOAD REGULATION	V1: 2 %~ -2 % (Max)	I/P: 230 VAC O/P: 95% LOAD ~MIN LOAD Ta:25°C	V1: 0.26 %~ -0.26 %	P
7	SET UP TIME	230VAC: 1200 ms (Max) 115 VAC: 1200 ms (Max)	I/P: 230 VAC I/P: 115 VAC O/P: 95% LOAD Ta:25°C	230VAC/ 728 ms 115VAC/ 728 ms	P
8	RISE TIME	230VAC: 80 ms (Max) 115VAC: 80 ms (Max)	I/P: 230 VAC I/P: 115 VAC O/P: 95% LOAD Ta:25°C	230VAC/ 21 ms 115VAC/ 24 ms	P
9	HOLD UP TIME	230VAC: 60 ms (TYP) 115VAC: 30 ms (TYP)	I/P: 230 VAC I/P: 115 VAC O/P: 95% LOAD Ta:25°C	230VAC/ 119 ms 115VAC/ 36 ms	P
10	OVER/UNDERSHOOT TEST	< ±5%	I/P: 230 VAC O/P: 95% LOAD Ta:25°C	TEST: <5 %	P
11	DYNAMIC LOAD	V1: 2700 mVp-p	I/P: 230 VAC O/P: 95% LOAD /Min LOAD 90%DUTY/1KHZ Ta:25°C	570 mVp-p	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	INPUT VOLTAGE RANGE	90VAC~295 VAC	I/P: TESTING O/P: 95% LOAD Ta: 25°C	52 V~295V	P
			I/P: LOW-LINE-3V= 87V HIGH-LINE+15%=300 V O/P: 95% LOAD /MIN LOAD ON: 30 Sec . OFF: 30 Sec 10MIN (AC POWER ON/OFF NO DAMAGE)	TEST: OK	
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE OSC	I/P: 90 VAC ~ 295 VAC O/P: 95% LOAD ~MIN LOAD Ta: 25°C	TEST: OK	P
3	POWER FACTOR	0.95 / 230 VAC(TYP) 0.98 / 115 VAC(TYP) PF 0.9 at 75 ~ 100% load	I/P: 230 VAC I/P: 115 VAC O/P: 95% LOAD Ta: 25°C	PF= 0.975 / 230 VAC PF= 0.989 / 115 VAC PF 0.9 at 75 ~ 100% load	P
4	EFFICIENCY	87% (TYP)	I/P: 230 VAC O/P: 95% LOAD Ta: 25°C	88.5 %	P
5	INPUT CURRENT	230V/ 0.55 A (TYP) 115V/ 1.1 A (TYP)	I/P: 230 VAC I/P: 115 VAC O/P: 95% LOAD Ta: 25°C	I = 0.48 A/ 230 VAC I = 0.91 A/ 115 VAC	P
6	INRUSH CURRENT	230V/ 40 A (TYP) COLD START	I/P: 230 VAC O/P: 95% LOAD Ta: 25°C	I = 32 A/ 230 VAC	P
7	LEAKAGE CURRENT	< 0.75 mA / 240 VAC	I/P: 254 VAC O/P: Min LOAD Ta: 25°C	L-FG: 0.38 mA N-FG: 0.38 mA	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	95 %~ 102 %	I/P: 230 VAC I/P: 115 VAC O/P: TESTING Ta: 25°C	99.4 %/ 230 VAC 98.9 %/ 115 VAC Constant Current Limiting	P
2	OVER VOLTAGE PROTECTION	CH1: 29V~ 36 V	I/P: 230 VAC I/P: 115 VAC O/P: MIN LOAD Ta: 25°C	33.9 V/ 230 VAC 33.9 V/ 115 VAC Shunt down Re- power ON	P
3	OVER TEMPERATURE PROTECTION	SPEC: RTH2: 90 ± 10°C O.T.P. NO DAMAGE	I/P: 230 VAC O/P: 95% LOAD	O.T.P. Active Shunt down Re-power ON	P
4	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P: 264 VAC O/P: 95% LOAD Ta: 25°C	NO DAMAGE Hiccup Mode or Constant Current Limiting	P

ENVIRONMENT TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT																																																																																										
1	TEMPERATURE RISE TEST	MODEL : PLN-100-24 1. ROOM AMBIENT BURN-IN : 2 HRS I/P: 230VAC O/P: 95% LOAD Ta= 30.1 °C 2. HIGH AMBIENT BURN-IN : 62 HRS I/P: 230VAC O/P: 95% LOAD Ta= 45.4 °C <table><tr><th>NO</th><th>Position</th><th>P/N</th><th>ROOM AMBIENT Ta= 30.1 °C</th><th>HIGH AMBIENT Ta= 45.4 °C</th></tr><tr><td>1</td><td>BD1</td><td>US4KB80 4A/800V SHI</td><td>74.3°C</td><td>87.3°C</td></tr><tr><td>2</td><td>LF2</td><td>TR-689</td><td>67.0°C</td><td>79.6°C</td></tr><tr><td>3</td><td>L2 COIL</td><td>TF-1356 LS</td><td>82.7°C</td><td>94.7°C</td></tr><tr><td>4</td><td>L1 COIL</td><td>TR-623</td><td>75.5°C</td><td>88.3°C</td></tr><tr><td>5</td><td>Q2</td><td>2SK3683 19A/500V FUJI</td><td>83.9°C</td><td>96.8°C</td></tr><tr><td>6</td><td>D1</td><td>MUR460 4A/600V VIS</td><td>94.0°C</td><td>107.5°C</td></tr><tr><td>7</td><td>C5</td><td>150U/400V NCC 105°C KMG</td><td>86.4°C</td><td>99.1°C</td></tr><tr><td>8</td><td>C42</td><td>47U/63V RUB 105°C YXF</td><td>83.9°C</td><td>96.3°C</td></tr><tr><td>9</td><td>Q1</td><td>SPA11N65C3 11A/820V INF</td><td>91.4°C</td><td>104.4°C</td></tr><tr><td>10</td><td>T1 COIL</td><td>TF-1472 LS</td><td>84.6°C</td><td>107.8°C</td></tr><tr><td>11</td><td>U2</td><td>TEA1552/N1 PH</td><td>87.5°C</td><td>100.1°C</td></tr><tr><td>12</td><td>U1</td><td>TDA4863 INF</td><td>78.6°C</td><td>89.5°C</td></tr><tr><td>13</td><td>RTH2</td><td>200KΩ ±5% (90°C ± 10°C)</td><td>81.3°C</td><td>94.1°C</td></tr><tr><td>14</td><td>Q100</td><td>IRF3415 150V/43A IR</td><td>79.1°C</td><td>92.7°C</td></tr><tr><td>15</td><td>C105</td><td>680U/35V NCC 105°C KY</td><td>88.0°C</td><td>101.2°C</td></tr><tr><td>16</td><td>TEMP INSIDE</td><td>T1 BETWEEN C5</td><td>80.9°C</td><td>92.8°C</td></tr><tr><td>17</td><td>CASE</td><td>UP CASE</td><td>55.9°C</td><td>70.9°C</td></tr></table>			NO	Position	P/N	ROOM AMBIENT Ta= 30.1 °C	HIGH AMBIENT Ta= 45.4 °C	1	BD1	US4KB80 4A/800V SHI	74.3°C	87.3°C	2	LF2	TR-689	67.0°C	79.6°C	3	L2 COIL	TF-1356 LS	82.7°C	94.7°C	4	L1 COIL	TR-623	75.5°C	88.3°C	5	Q2	2SK3683 19A/500V FUJI	83.9°C	96.8°C	6	D1	MUR460 4A/600V VIS	94.0°C	107.5°C	7	C5	150U/400V NCC 105°C KMG	86.4°C	99.1°C	8	C42	47U/63V RUB 105°C YXF	83.9°C	96.3°C	9	Q1	SPA11N65C3 11A/820V INF	91.4°C	104.4°C	10	T1 COIL	TF-1472 LS	84.6°C	107.8°C	11	U2	TEA1552/N1 PH	87.5°C	100.1°C	12	U1	TDA4863 INF	78.6°C	89.5°C	13	RTH2	200KΩ ±5% (90°C ± 10°C)	81.3°C	94.1°C	14	Q100	IRF3415 150V/43A IR	79.1°C	92.7°C	15	C105	680U/35V NCC 105°C KY	88.0°C	101.2°C	16	TEMP INSIDE	T1 BETWEEN C5	80.9°C	92.8°C	17	CASE	UP CASE	55.9°C	70.9°C	P
NO	Position	P/N	ROOM AMBIENT Ta= 30.1 °C	HIGH AMBIENT Ta= 45.4 °C																																																																																											
1	BD1	US4KB80 4A/800V SHI	74.3°C	87.3°C																																																																																											
2	LF2	TR-689	67.0°C	79.6°C																																																																																											
3	L2 COIL	TF-1356 LS	82.7°C	94.7°C																																																																																											
4	L1 COIL	TR-623	75.5°C	88.3°C																																																																																											
5	Q2	2SK3683 19A/500V FUJI	83.9°C	96.8°C																																																																																											
6	D1	MUR460 4A/600V VIS	94.0°C	107.5°C																																																																																											
7	C5	150U/400V NCC 105°C KMG	86.4°C	99.1°C																																																																																											
8	C42	47U/63V RUB 105°C YXF	83.9°C	96.3°C																																																																																											
9	Q1	SPA11N65C3 11A/820V INF	91.4°C	104.4°C																																																																																											
10	T1 COIL	TF-1472 LS	84.6°C	107.8°C																																																																																											
11	U2	TEA1552/N1 PH	87.5°C	100.1°C																																																																																											
12	U1	TDA4863 INF	78.6°C	89.5°C																																																																																											
13	RTH2	200KΩ ±5% (90°C ± 10°C)	81.3°C	94.1°C																																																																																											
14	Q100	IRF3415 150V/43A IR	79.1°C	92.7°C																																																																																											
15	C105	680U/35V NCC 105°C KY	88.0°C	101.2°C																																																																																											
16	TEMP INSIDE	T1 BETWEEN C5	80.9°C	92.8°C																																																																																											
17	CASE	UP CASE	55.9°C	70.9°C																																																																																											
2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR (MIN)	I/P: 230 VAC O/P: 100 % LOAD Ta:25°C	TEST : OK	P																																																																																										
3	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P: 230 VAC O/P: 95 % LOAD Ta= -30 °C	TEST : OK	P																																																																																										
4	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 50°C NO DAMAGE	I/P: 295 VAC O/P: 95% LOAD Ta= 50°C HUMIDITY= 95 %R.H	TEST : OK	P																																																																																										
5	TEMPERATURE COEFFICIENT	± 0.03 %(0-50°C)	I/P: 230 VAC O/P:95% LOAD	± 0.01 %(0-50°C)	P																																																																																										
6	VIBRATION TEST	1 Carton & 1 Set (1) Waveform: Sine Wave (2) Frequency:10~500Hz (3) Time:72min (4) Acceleration:2G (5) Test Time:1 hour in each axis (X.Y.Z) (6) Ta:25°C		TEST : OK	P																																																																																										

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	WITHSTAND VOLTAGE	I/P-O/P: 3.75 KVAC/min I/P-FG: 1.88KVAC/min O/P-FG: 0.5 KVAC/min	I/P-O/P: 4.2 KVAC/min I/P-FG: 2.25 KVAC/min O/P-FG: 0.6 KVAC/min Ta:25°C	I/P-O/P: 5.84 mA I/P-FG 4.89 mA O/P-FG 2.566 mA NO DAMAGE	P
2	ISOLATION RESISTANCE	I/P-O/P:500VDC>100MΩ	I/P-O/P: 500 VDC Ta:25°C	I/P-O/P: 7 GΩ NO DAMAGE	P
3	APPROVAL	TUV: Certificate NO : R50091288 UL: File NO : E307078			P

E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	HARMONIC	EN61000-3-2 CLASS A CLASS C	I/P: 230 VAC/50HZ O/P: 95% LOAD Ta:25°C	PASS	P
2	CONDUCTION	EN55022 EN55015 CLASS B	I/P: 230 VAC (50HZ) O/P: 95% LOAD /50% LOAD Ta:25°C	PASS Test by certified Lab	P
3	RADIATION	EN55022 EN55015 CLASS B	I/P: 230 VAC (50HZ) O/P: 95% LOAD Ta:25°C	PASS Test by certified Lab	P
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	P
5	E.F.T	EN61000-4-4 LIGHT INDUSTRY INPUT: 1KV	I/P: 230 VAC/50HZ O/P: 95% LOAD Ta:25°C	CRITERIA A	P
6	SURGE	IEC61000-4-5 LIGHT INDUSTRY L-N : 2KV L,N-PE : 4KV	I/P: 230 VAC/50HZ O/P: 95% LOAD Ta:25°C	CRITERIA A	P
7	Test by certified Lab & Test Report Prepare				

M.T.B.F & LIFE CYCLE CALCULATION

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	CAPACITOR LIFE CYCLE	PLN-100-24:SUPPOSE C105 IS THE MOST CRITICAL COMPONENT I/P: 230VAC O/P: 95% LOAD Ta= 25 °C LIFE TIME= 50930 HRS I/P: 230VAC O/P: 95% LOAD Ta= 40 °C LIFE TIME= 20790 HRS			P
2	MTBF	MIL-HDBK-217F NOTICES2 PARTS COUNT TOTAL FAILURE RATE: 303.1K HRS			P
3	ORT (Ongoing Reliability test)	PLN-100-24:I/P : 230VAC O/P : 60% LOAD TA=50°C Sample=20pcs TEST TIME=888HRS			P

COMPONENT STRESS TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	Power Transistor (D to S) or (C to E) Peak Voltage	Q1 Rated SPA11N65C3 : 650V 11 A	I/P:High-Line +3V = 298 V O/P: (1) 95% LOAD Turn on (2) Output Short Ta:25℃	(1) 568 V (2) 504 V	P
2	Diode Peak Voltage	Q100 Rated IRF640 : 18A 200V	I/P:High-Line +3V = 298 V O/P: (1) 95% LOAD Turn on (2)Output Short Ta:25℃	(1) 137 V (2) 102 VV	P
3	Clamp Diode Peak Voltage	D2 Rated IN4007 : 1KV 1A	I/P:High-Line +3V = 298 V O/P: (1) Dynamic Load 90%Duty/1KHz Ta:25℃	(1) 506 V	P
4	Input Capacitor Voltage	C5 Rated : 150 u / 400V/ 105℃	I/P:High-Line +3V = 298 V O/P: (1) 95% LOAD Turn on /Off (2) Min load Turn on /Off (3) 95% /Min load Change Ta:25℃	(1) 388 V (2) 389 V (3) 388 V	P
5	Control IC Voltage Test	U2 Rated TEA1552 : 20V	I/P:High-Line +3V = 298 V O/P: (1) 95% LOAD Turn on /Off (2) Min load Turn on /Off (3) 95% /Min load Change Ta:25℃	(1) 17.8 V (2) 17.2 V (3) 17.8 V	P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2006/7/4	RD SAMPLE	PASS	VINCENT TSENG	MAX LIN
2006/8/24	PRODUCT SAMPLE W0607C06	PASS	VINCENT TSENG	MAX LIN

2003/12/12 A50-F023