

ORLRPV48100

ITEM NO. DRIVER - 15246

Features:

- Constant voltage design
- Universal AC input / Full range
- Fully encapsulated with IP67 level (Note.7)
- Withstand 300VAC surge input for 5 seconds
- Protections: Short Circuit / Over Current / Over Voltage
- Fully isolated plastic case
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty



Dimension



Technical Specification

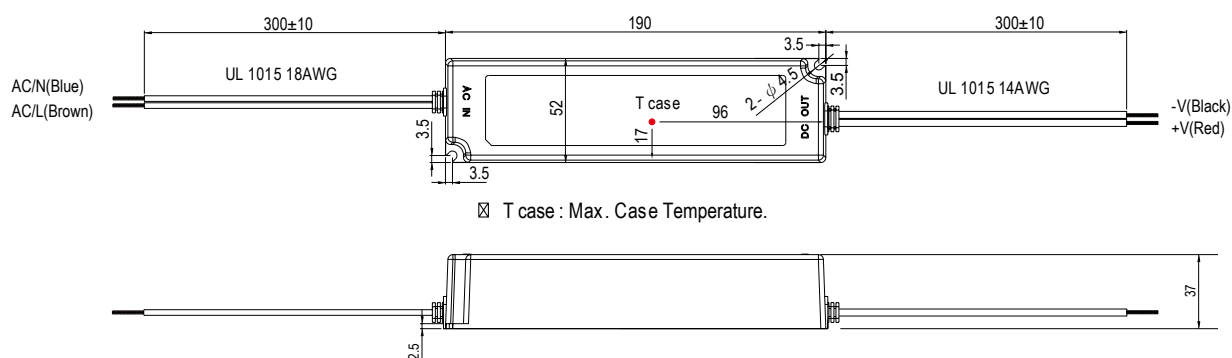
MODEL		ORLRPV48100
OUTPUT	DC VOLTAGE	48V
	RATED CURRENT	2.1A
	CURRENT RANGE	0 ~ 2.1A
	RATED POWER	100.8W
	RIPPLE & NOISE (max.) Note.2	150mVp-p
	VOLTAGE TOLERANCE Note.3	± 5.0%
	LINE REGULATION	± 1.0%
	LOAD REGULATION	± 2.0%
	SETUP, RISE TIME Note.6	2000ms, 25ms / 230VAC 2000ms, 25ms / 115VAC
	HOLD UP TIME (Typ.)	50ms/230VAC 14ms/115VAC at full load
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz
	EFFICIENCY (Typ.)	89%
	AC CURRENT	2.2A/115VAC 1.2A/230VAC
	INRUSH CURRENT(Typ.)	COLD START 75A(twidth=700μs measured at 50% Ipeak) at 230VAC
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	2 units (circuit breaker of type B) / 3 units (circuit breaker of type C) at 230VAC
PROTECTION	LEAKAGE CURRENT	0.25mA / 240VAC
	OVERLOAD	110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed
	OVER VOLTAGE	55.2 ~ 64.8V Protection type : Shut down o/p voltage, re-power on to recover

Technical Specification Continued

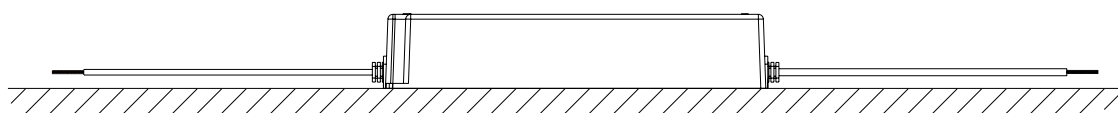
ENVIRONMENT	WORKING TEMP.	-25 ~ +70°C (Refer to "Derating Curve")
	WORKING HUMIDITY	20 ~ 90% RH non-condensing
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH
	TEMP. COEFFICIENT	± 0.03%/°C (0 ~ 50°C)
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes
SAFETY & EMC	SAFETY STANDARDS	UL8750, CSA C22.2 No 250.13-12, UL879, CSA C22.2 No. 207-M89, BIS IS15885(Note12), EAC TP TC 004, IP67, IEC62368-1, BS EN/EN62368-1 approved
	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC
	ISOLATION RESISTANCE	I/P-O/P: >100M Ohms / 500VDC / 25°C / 70% RH
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2 Class A(≤ 80% load), BS EN/EN61000-3-3, EAC TP TC 020
OTHERS	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2, 3, 4, 5, 6, 8, 11; BS EN/EN55035, light industry level, EAC TP TC 020
	MTBF	4497.1K hrs min. Telcordia SR-332 (Bellcore); 681.6Khrs min. MIL-HDBK-217F (25°C)
	DIMENSION	190*52*37mm (L*W*H)
	PACKING	0.63Kg/20pcs/13.6Kg/0.55CUFT
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C 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. 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. 6. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. 7. Suitable for indoor use or outdoor use without direct sunlight exposure. 8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).	

Mechanical Specification

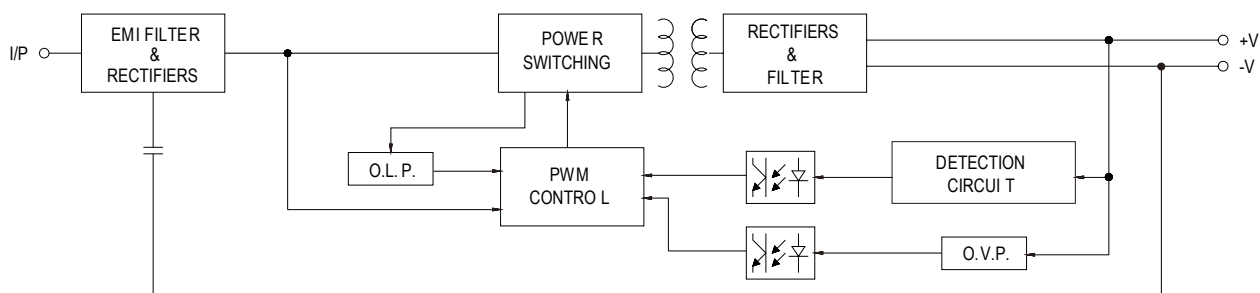
Case No. LPC-100A Unit:mm



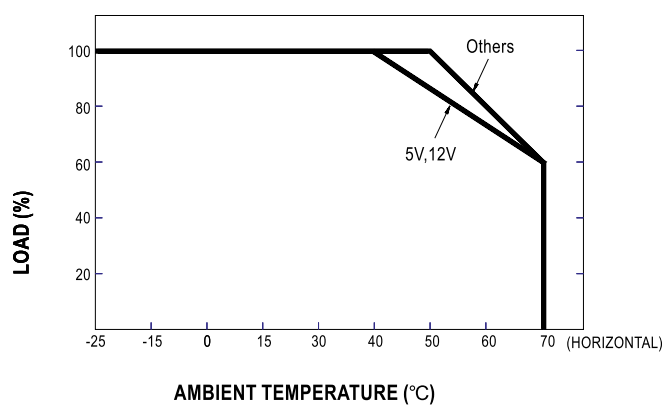
Recommended Mounting Direction



Block Diagram



Derating Curve



Static Characteristics

