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100W LED Driver power supply < LPC-100



■ Features :

- Constant current design
- Universal AC input/full range
- Withstand 300VAC surge input for 5 seconds
- High efficiency up to 90%
- Protections: Short circuit / Over voltage
- Cooling by free air convection
- Fully encapsulated with IP67 level (Note.6)
- Fully isolated plastic case
- Class II power unit, no FG
- Suitable for LED lighting and moving sign applications(Note.7)
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty (Note.4)



SPECIFICATION

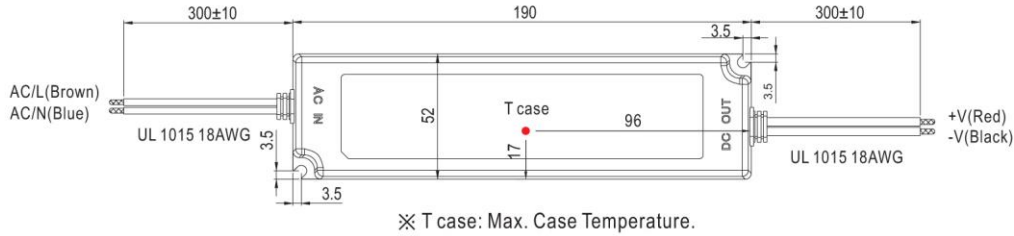
MODEL	LPC-100-350	LPC-100-500	LPC-100-700	LPC-100-1050	LPC-100-1400	LPC-100-1750	LPC-100-2100	
OUTPUT	RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA	2100mA	
	CURRENT ACCURACY	±5.0%						
	CONSTANT CURRENT REGION Note.5	143 ~ 286V	100 ~ 200V	72 ~ 143V	48 ~ 96V	36 ~ 72V	29 ~ 58V	24 ~ 48V
	RATED POWER	100.1W	100W	100.1W	100.8W	100.8W	101.5W	100.8W
	RIPPLE CURRENT	±5%						
	RIPPLE & NOISE	1.5Vp-p	1.5Vp-p	1Vp-p	1Vp-p	1Vp-p	1Vp-p	1Vp-p
	LINE REGULATION	±1%						
	VOLTAGE TOLERANCE	±1.5%						
	SETUP, RISE TIME	1000ms, 80ms / 230VAC 2000ms, 80ms/115VAC at full load						
HOLD UP TIME (Typ.)	16ms/230VAC	10ms/115vac at full load						
INPUT	VOLTAGE RANGE Note.2	90 ~ 264VAC	127VDC ~ 370VDC					
	FREQUENCY RANGE	47 ~ 63Hz						
	EFFICIENCY (Typ.)	90%				89.5%	89%	
	AC CURRENT (Typ.)	2.2 A / 115VAC	1.2A / 230VAC					
	INRUSH CURRENT (Typ.)	COLD START 75A(twidth=980µs measured at 50% Ipeak) at 230VAC						
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	1 units (circuit breaker of type B) / 2 units (circuit breaker of type C) at 230VAC						
LEAKAGE CURRENT	<0.25mA / 240VAC							
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed						
	OVER VOLTAGE	315 ~ 345V	220 ~ 240V	160 ~ 172V	108 ~ 120V	80 ~ 97V	65 ~ 80V	58 ~ 68V
ENVIRONMENT	WORKING TEMP.	-25 ~ +50°C (Refer to "Derating Curve")						
	WORKING HUMIDITY	10 ~ 95% 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	IP67 approved, Design refer to TUV EN60950-1						
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC						
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH						
	EMC EMISSION	Compliance to EN55022(CISPR22) Class B; EN61000-3-2 Class A(≦ 80% load); EN61000-3-3						
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level , criteria A						
OTHERS	MTBF	511Khrs min. MIL-HDBK-217F (25°C)						
	DIMENSION	190*52*37mm (L*W*H)						
	PACKING	0.61Kg;20pcs/13.2Kg/0.55CUFT						
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Derating may be needed under low input voltages. Please check the static characteristics for more details. 3. 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. 4. Refer to warranty statement. 5. Constant current operation region is within 50% ~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. 6. Suitable for indoor use or outdoor use without direct sunlight exposure, please avoid immerse in the water over 30minutes. 7. The unit might not be suitable for lighting applications in EU countries. Please check with your local authorities for the possible use of the unit.							



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Mechanical Specification

Case No. LPC-100 Unit:mm

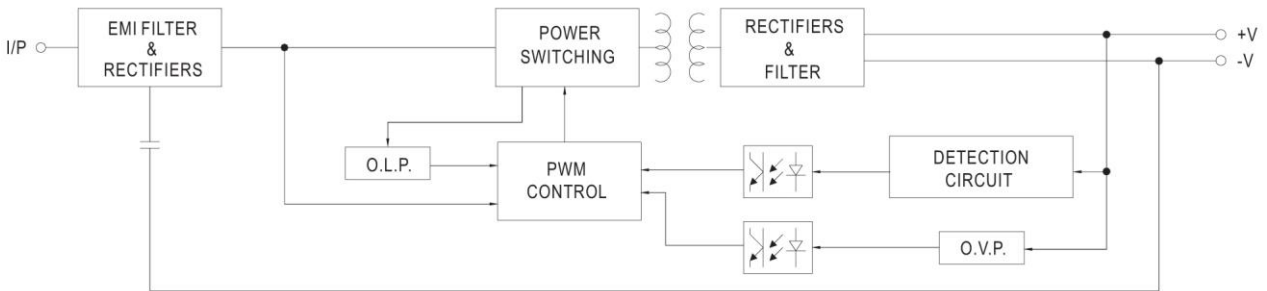


Recommend Mounting Direction

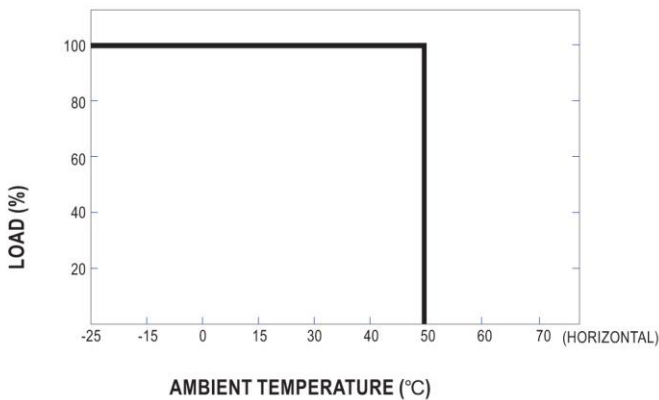


Block Diagram

fosc : 67KHz



Derating Curve



Static Characteristics

