150W Single Output LED Power Supply — LPC-150 series



Features :

- Constant current design
- 180~305VAC input only
- High efficiency up to 90%
- Protections: Short circuit / Over voltage / Over temperature
- Cooling by free air convection
- Fully encapsulated with IP67 level (Note.6)
- Fully isolated plastic case
- Class Ⅱ power unit, no FG
- Display devices for decorative & advertising accessories (Note.9)
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty (Note.4)

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GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

IP67 IS 15885(Part 2/Sec13) R-41027766 (for 700mA,1050mA,1400mA,2800mA only)

SPECIFICATION

MODEL		LPC-150-350	LPC-150-500	LPC-150-700	LPC-150-1050	LPC-150-1400	LPC-150-1750	LPC-150-2100	LPC-150-2450	LPC-150-2800	LPC-150-3150
OUTPUT	RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA	1750mA	2100mA	2450mA	2800mA	3150mA
	CURRENT ACCURACY	±5.0%									
	CONSTANT CURRENT REGION Note.5	215 ~ 430V	150 ~ 300V	107V ~ 215V	72V ~ 144V	54V ~ 108V	43V ~ 86V	36V ~ 72V	31V ~ 62V	27V ~ 54V	24V ~ 48V
	RATED POWER	150.5W	150W	150.5W	151.2W	151.2W	150.5W	151.2W	151.9W	151.2W	151.2W
	RIPPLE CURRENT	±5%									
	VOLTAGE TOLERANCE	±2.0%									
	SETUP, RISE TIME	1000ms, 80ms / 230VAC at full load									
	HOLD UP TIME (Typ.)	16ms/230VAC at full load									
INPUT	VOLTAGE RANGE Note.2	180 ~ 305VAC 254VDC ~ 431VDC									
	FREQUENCY RANGE	47 ~ 63Hz									
	EFFICIENCY (Typ.)	90%									
	AC CURRENT (Typ.)	1.7 A / 230VAC 1.5A / 277VAC									
	INRUSH CURRENT (Typ.)	COLD START 40A(t_{width}=750μs measured at 50% I_{peak}) at 230VAC									
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC									
	LEAKAGE CURRENT	<0.25mA / 277VAC									
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed									
	OVER VOLTAGE	440 ~ 470V	330 ~ 365V	235 ~ 265V	158 ~ 188V	115 ~ 135V	96 ~ 115V	80 ~ 97V	69 ~ 80V	63 ~ 75V	55 ~ 65V
		Protection type : Shut down and latch off o/p voltage re-power on to recovery									
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down									
ENVIRONMENT	WORKING TEMP.	-25 ~ +50℃ (Refer to "Derating Curve")									
	WORKING HUMIDITY	10 ~ 95% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-40 ~ +70℃, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)									
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
SAFETY & EMC	SAFETY STANDARDS	BIS IS15885(for 700mA,1050mA,1400mA,2800mA only), EAC TP TC 004, IP67;IEC 62368-1 , BS EN/EN62368-1 approved									
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC									
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25℃/ 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									
	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									
OTHERS	MTBF	3528.4K hrs min. Telcordia SR-332 (Bellcore) ; 479.1K hrs min. MIL-HDBK-217F (25℃)									
	DIMENSION	191*63*37.5mm (L*W*H)									
	PACKING	0.74Kg; 20pcs/15.8Kg/0.95CUFT									

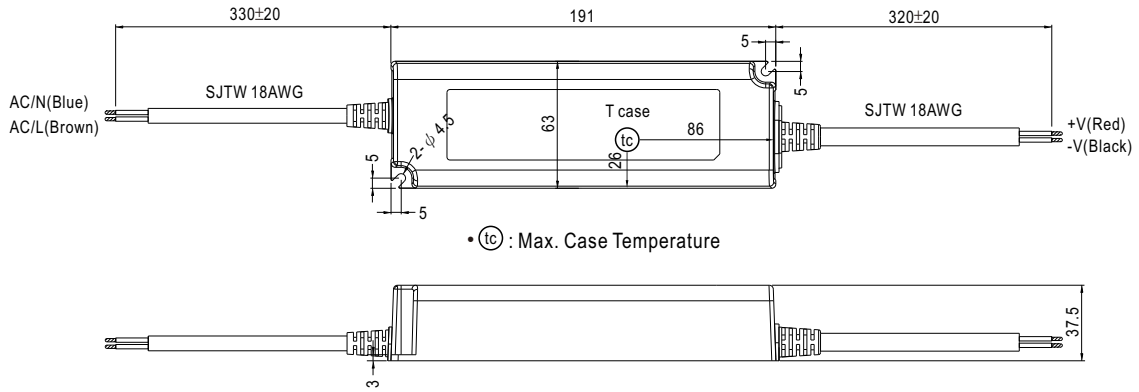
NOTE

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
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 ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).
8. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf
9. This product is not intended for LED lighting luminaire applications in the EU and China.(In the EU and China the LPF/NPF/XLG/XLC/XLN series are recommended.)

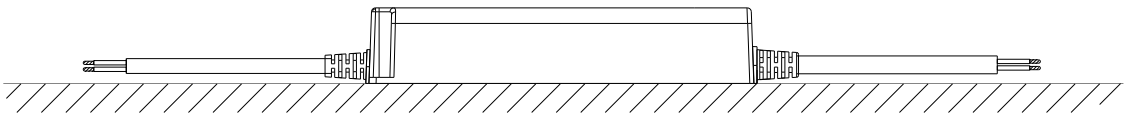
※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

■ Mechanical Specification

Case No. LPC-150 Unit:mm Tolerance:±1

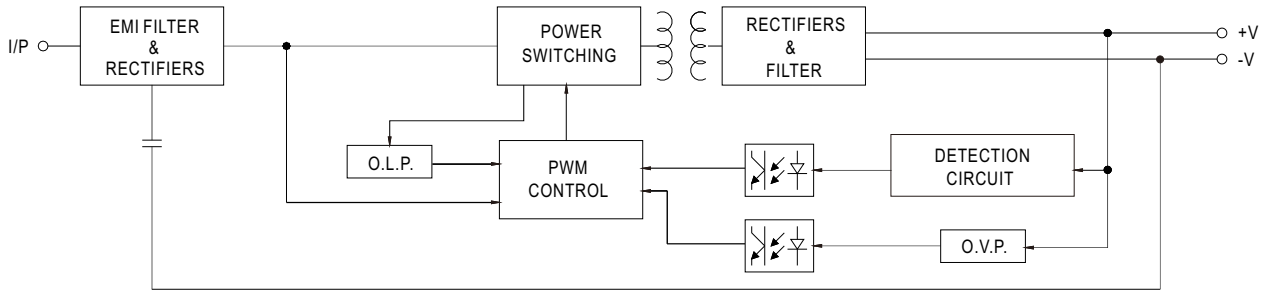


■ Recommend Mounting Direction

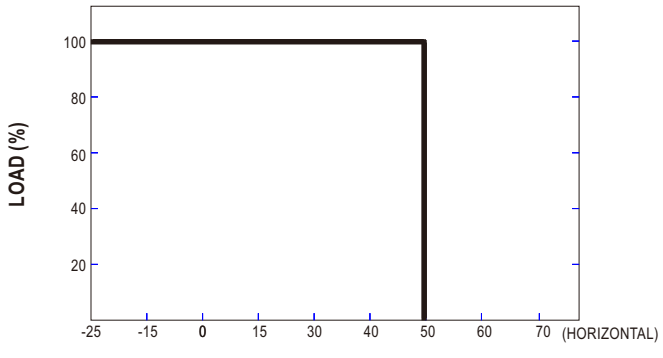


■ Block Diagram

PWM fosc : 67KHz

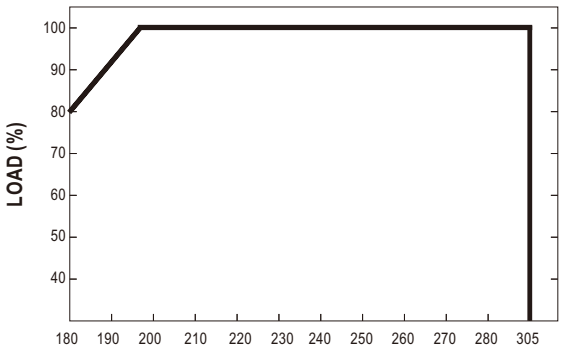


■ Derating Curve



AMBIENT TEMPERATURE (℃)

■ Static Characteristics



INPUT VOLTAGE (V) 60Hz