



## ■ 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
- Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)(Note.7)
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty (Note.4)

IS 15885(Part 2/Sec13)

8

R-41027766

IP67

(for 700mA,1050mA,1400mA,2800mA only)

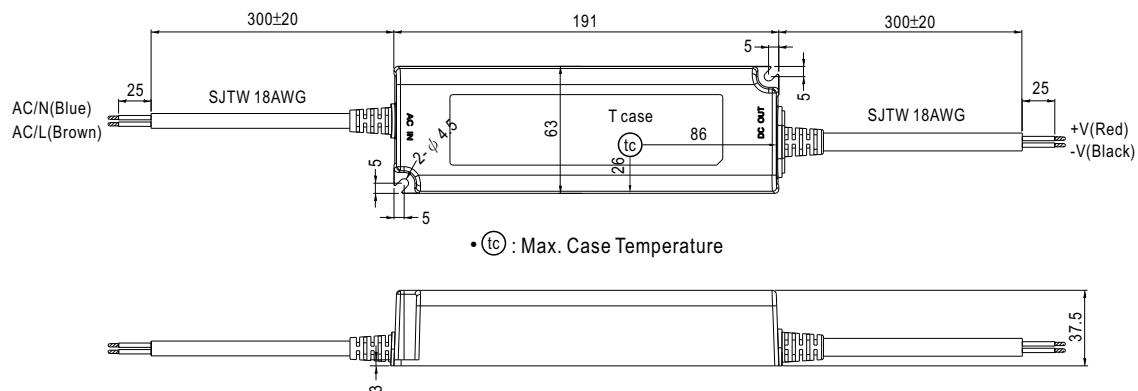


## SPECIFICATION

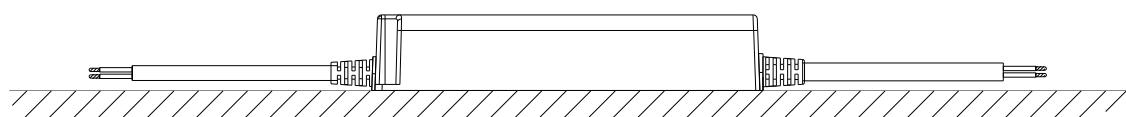
MODEL	LPC-150-350	LPC-150-500	LPC-150-700	LPC-150-1050	LPC-150-1400	LPC-150-1750	LPC-150-2100	LPC-150-2450	LPC-150-2800	LPC-150-3150
OUTPUT	<b>RATED CURRENT</b>	350mA	500mA	700mA	1050mA	1400mA	1750mA	2100mA	2450mA	2800mA
	<b>CURRENT ACCURACY</b>	±5.0%								
	<b>CONSTANT CURRENT REGION Note.5</b>	215 ~ 430V	150 ~ 300V	107V ~ 215V	72V ~ 144V	54V ~ 108V	43V ~ 86V	36V ~ 72V	31V ~ 62V	27V ~ 54V
	<b>RATED POWER</b>	150.5W	150W	150.5W	151.2W	151.2W	150.5W	151.2W	151.9W	151.2W
	<b>RIPPLE CURRENT</b>	±5%								
	<b>RIPPLE &amp; NOISE</b>	2Vp-p	1.5Vp-p	1Vp-p						
	<b>VOLTAGE TOLERANCE</b>	±2.0%								
	<b>LINE REGULATION</b>	±1%								
	<b>SETUP, RISE TIME</b>	1000ms, 80ms / 230VAC at full load								
	<b>HOLD UP TIME (Typ.)</b>	16ms/230VAC at full load								
INPUT	<b>VOLTAGE RANGE Note.2</b>	180 ~ 305VAC	254VDC ~ 431VDC							
	<b>FREQUENCY RANGE</b>	47 ~ 63Hz								
	<b>EFFICIENCY (Typ.)</b>	90%								
	<b>AC CURRENT (Typ.)</b>	1.7 A / 230VAC	1.5A / 277VAC							
	<b>INRUSH CURRENT (Typ.)</b>	COLD START 40A(twidth=750μs measured at 50% Ipeak) at 230VAC								
	<b>MAX. No. of PSUs on 16A CIRCUIT BREAKER</b>	3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC								
PROTECTION	<b>LEAKAGE CURRENT</b>	<0.25mA / 277VAC								
	<b>SHORT CIRCUIT</b>	Hiccup mode, recovers automatically after fault condition is removed								
	<b>OVER VOLTAGE</b>	440 ~ 470V	330 ~ 365V	235 ~ 265V	158 ~ 188V	115 ~ 135V	96 ~ 115V	80 ~ 97V	69 ~ 80V	63 ~ 75V
ENVIRONMENT	<b>OVER TEMPERATURE</b>	Protection type : Shut down and latch off o/p voltage re-power on to recovery								
	<b>WORKING TEMP.</b>	-25 ~ +50°C (Refer to "Derating Curve")								
	<b>WORKING HUMIDITY</b>	10 ~ 95% RH non-condensing								
	<b>STORAGE TEMP., HUMIDITY</b>	-40 ~ +70°C, 10 ~ 95% RH								
	<b>TEMP. COEFFICIENT</b>	±0.03%/°C (0 ~ 50°C)								
SAFETY & EMC	<b>VIBRATION</b>	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
	<b>SAFETY STANDARDS</b>	BIS IS15885(for 700mA,1050mA,1400mA,2800mA only), EAC TP TC 004, IP67 approved; refer to EN60950-1								
	<b>WITHSTAND VOLTAGE</b>	I/P-O/P:3kVAC								
	<b>ISOLATION RESISTANCE</b>	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH								
	<b>EMC EMISSION</b>	Compliance to EN55032(CISPR32) Class B; EN61000-3-2 Class A(≤80% load); EN61000-3-3, EAC TP TC 020								
OTHERS	<b>EMC IMMUNITY</b>	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A, EAC TP TC 020								
	<b>MTBF</b>	479K hrs min. MIL-HDBK-217F (25°C)								
	<b>DIMENSION</b>	191*63*37.5mm (L*W*H)								
NOTE	<b>PACKING</b>	0.74Kg; 20pcs/15.8Kg/0.95CUFT								
	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.									
	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).									
	9. For any application note and IP water proof function installation caution, please refer our user manual before using.									
	<a href="https://www.meanwell.com/Upload/PDF/LED_EN.pdf">https://www.meanwell.com/Upload/PDF/LED_EN.pdf</a>									

## ■ Mechanical Specification

Case No. LPC-150 Unit:mm

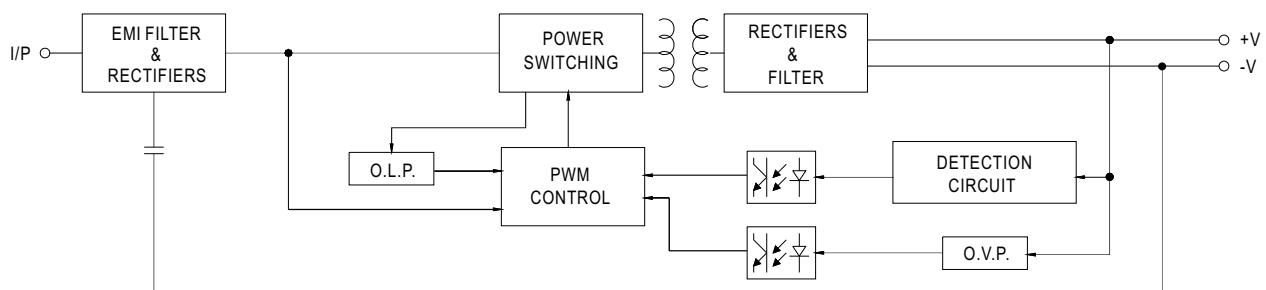


## ■ Recommend Mounting Direction



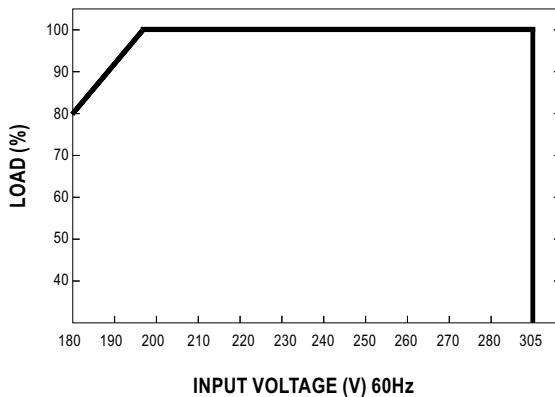
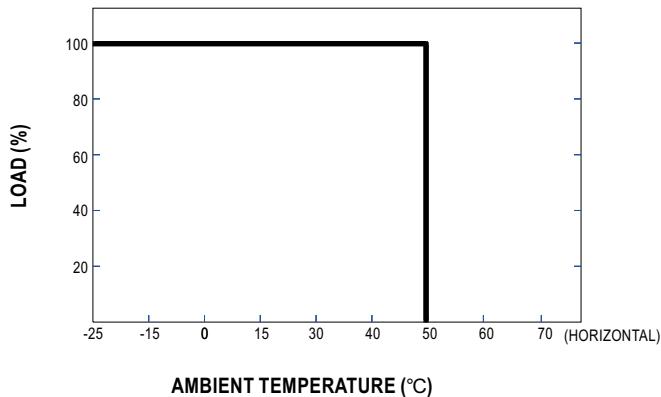
## ■ Block Diagram

PWM fosc: 67KHz



## ■ Derating Curve

## ■ Static Characteristics



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## MEAN WELL:

[LPC-150-350](#) [LPC-150-500](#) [LPC-150-1050](#) [LPC-150-1400](#) [LPC-150-3150](#) [LPC-150-700](#) [LPC-150-2100](#) [LPC-150-1750](#) [LPC-150-2450](#) [LPC-150-2800](#)