LPC-35 Series

35W Single Output Switching Power Supply

Case: 8011BB
148 x 40 x 30mm

Features

- Constant current design
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Cooling by free air convection
- Protections: Short Circuit / Over voltage
- Fully encapsulated with IP67 level
- Fully isolated plastic case
- Class II power unit, no FG
- Class 2 power unit
- Pass LPS
- Suitable for LED lighting and moving sign applications
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

LPS IP67 (for 700mA only) (except for 700mA)

Specification

INPUT	Voltage	90 ~ 264VAC 127 ~ 370VAC		
	Frequency	47 ~ 63 Hz		
	AC current	1.1A/115VAC 0.7A/230VAC		
	Inrush Current (Typ.)	Cold start 55A (twidth=500μs measured at 50% Ipeak) at 230VAC		
	Max. No of PSUs on 16A Circuit Breaker	4 units (circuit breaker of type B) / 7 units (circuit breaker of type C) at 230VAC		
	Leakage current	<0.25mA/240VAC		
OUTPUT	MODEL No.	LPC-35-700	LPC-35-1050	LPC-35-1400
	DC Voltage Range	9 ~ 48V	9 ~ 30V	9 ~ 24V
	Rated Power	33.6W	31.5W	33.6W
	R&N	200mVp-p	200mVp-p	200mVp-p
	Efficiency	85%	85%	85%
	Voltage Tolerance	±5.0%	±5.0%	±5.0%
	Current Accuracy	±5.0%	±5.0%	±5.0%
	Line Regulation	±1.0%	±1.0%	±1.0%
	Load Regulation	±2.0%	±2.0%	±2.0%
	Set up, Rise Time	500ms, 120ms/230VAC 500ms, 120ms/115VAC at full load		
	Hold Up Time	50ms/230VAC 16ms/115VAC at full load		
PROTECTION	Over Voltage	50.4 ~ 60V	31.5 ~ 40.5V	27.6 ~ 32.4V
		Protection type : Shut off o/p voltage, clamping by zener diode		
ENVIRONMENT	Working Temperature	-30 ~ +70°C (Please refer to 'Derating Curve' section)		
	Working Humidity	20 ~ 90% RH non-condensing		
	Storage Temp., Humidity	-40 ~ +80°C, 10 ~ 95% RH		
	Temp Coefficient	±0.0.3%/°C (0 ~ 50°C)		
	Vibration	10 ~ 500Hz, 2G 10 min./1cycle, period for 60 min. each along X, Y, Z axes		
SAFETY & EMC	Safety Standards	UL1310, CAN/CSA C22.2 No. 223-M91(except for LPC-35-700), 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 EN55032 (CISPR32) Class B, EN61000-3-2 Class A, EN61000-3-3		
	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A		
OTHERS	M.T.B.F.	743.5Khrs min. MIL-HDBK-217F (25°C)		
	Packing	0.34Kg; 40pcs/14.6Kg/0.63CUFT		

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple and Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with 0.1uf & 47uf parellel capacitor.
3. Tolerance: includes set up tolerance, line regulation and load regulation.
4. Derating maybe needed under low input voltages. Please check the derating curve 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. 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. Suitable for indoor use or outdoor use without direct sunlight exposure. Avoid immersing in water for more than 30 minutes.
9. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch with permanent connection to the mains.
10. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models is needed for operating altitude greater than 2000m (6500ft).

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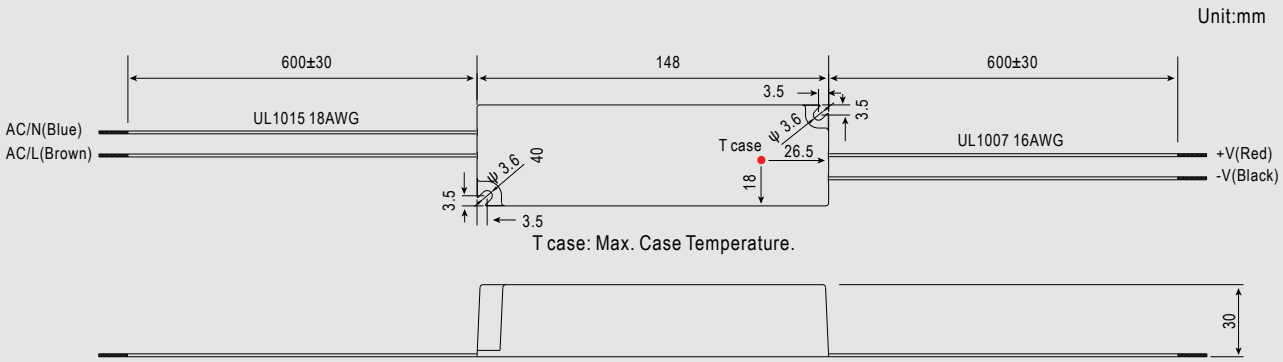
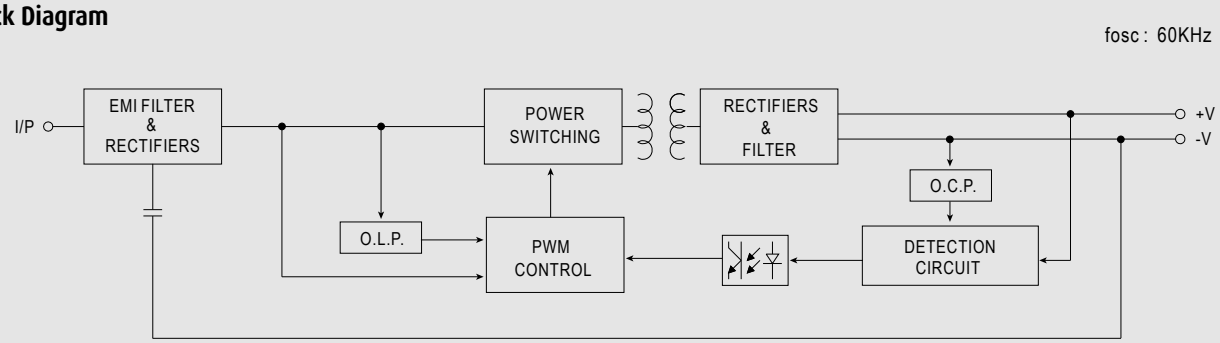
Mechanical Diagram

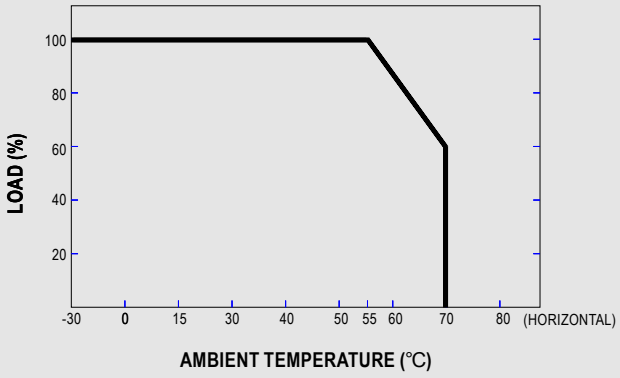


Mounting Recommendation

Block Diagram



Derating Curve



Static Characteristic