LPC60 series



- Constant current design
- Universal AC input
- Epoxy encapsulated with IP67 level
- Protections: Over current / Over voltage
- Fully isolated plastic case
- Cooling by free air convection
- Small and compact size
- UL1310 Class 2 power unit, pass LPS
- Suitable for LED lighting and moving sign applications

LPS IP67 (for 48V only) c Us (except for 48V)

Model Number	Output Volts	Output Amps	Over Voltage Protection	DC Voltage Range	Efficiency
SINGLE OUTPUT					
LPC60-1050	48 Volts(DC)	1050 mAmps	50.4~60 Volts(DC)	9~48Volts(DC)	87%
LPC60-1400	42 Volts(DC)	1400 mAmps	44.1~56.7 Volts(DC)	9~42Volts(DC)	85%
LPC60-1750	34 Volts(DC)	1750 mAmps	39.1~45.9 Volts(DC)	9~34Volts(DC)	87%

ASTRODYNE USA: 1-800-823-8082 ASTRODYNE PACIFIC: 886-2-26983458



60W Single Output LED Lighting Power Supply

LPC60 series

INPUT SPECIFICATIONS		
90-264VAC		
47-63 Hz		
1.2 Amps max @ 115VAC		
0.7 Amps max @ 230VAC		
30 Amps @ 115VAC max		
60 Amps @ 230VAC max		
0.25 mAmps @ 240VAC		

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Line Regulation	±1.0%
Load Regulation	±2.0%
Setup, Rise Time @ FL	500mS. 120mS/230VAC
	500mS,120mS/115VAC
Hold Up Time @ FL	50mS @ 230VAC typ
	16mS @ 115VAC typ
Ripple/Noise (Note1)	200 mVpk-pk max
Over Current Protection	±5% rated output current
	Constant current limiting type
Over Voltage Protection	See Selection Chart
	Shut off o/p voltage, clamping by
	TVS diode
Voltage Tolerance (Note2)	±5.0%

GENERAL SPECIFICATIONS

Safety	UL1310 Class 2, CAN/CSA C22.2
	No. 223-M91 (except for 48Volts)
	IP67 approved, design refer to
	TUV EN60950-1, EN61347-2-13
Efficiency	See Selection Chart
Isolation	3000VAC I/P-O/P
Insulation Resistance	I/P-O/P > 100MΩ / 500VDC /25°C/70% RH

Compliance to
EN61000-4-2,3,4,6,8,11;
ENV50204, EN55024, light industry level
criteria A
Compliance to EN55022B (CISPR22B)
Compliance to EN610000-3-2,-3

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-30°C to +70°C (See Derate Curve)
Relative Humidity	20~90% RH non cond
Storage Temperature	-40°C to +80°C, 10~95% RH
MTBF	732KHrs min, MIL-HDBK-217F (25°C)
Temp. Coefficient	±0.03%/°C (0~50 °C)
Vibration	10~500Hz, 2G 10 min./1cycle, period for 60min.
	each along X, Y. Z axes

PHYSICAL SPECIFICATIONS

Size	
Millimeters	162.5 x 42.5 x 32
Inches	6.40" x 1.67" x 1.26"
Weight	14.11 oz (400g)

NOTES

- 1. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 2. Tolerance : includes set up tolerance, line regulation and load regulation
- 3. Derating may be needed under low input voltage. Please check the derating curve for more details.

All specifications are typical at nominal input, full load, and 25°C unless otherwise noted

Astrodyne products are not authorized or warranteed for use as critical components in life support systems, equipment used in hazardous environments, nuclear controls systems, or other mission-critical applications.

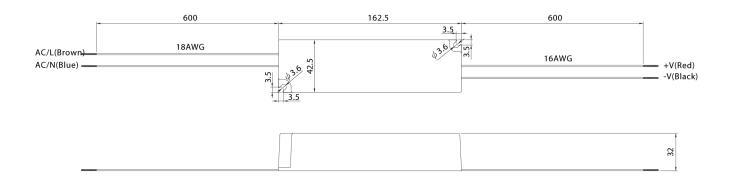
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LPC60 series

MECHANICAL DIMIENCION

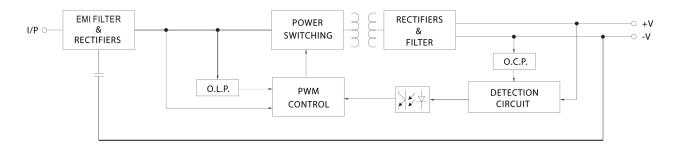
■ Mechanical Specification

Unit:mm



■ Block Diagram

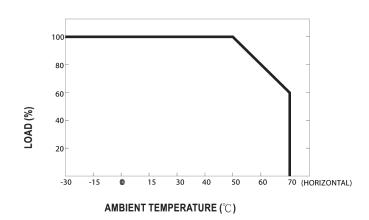
fosc: 60KHz



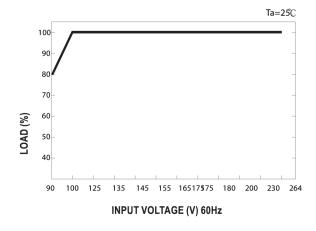
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■ Derating Curve



■ Static Characteristics



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