




- 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)  US (except for 48V) 

| Model Number | Output Volts | Output Amps | Over Voltage Protection | DC Voltage Range |
|----------------------|--------------|-------------|-------------------------|------------------|
| SINGLE OUTPUT | | | | |
| LPC35-700 | 48 Volts(DC) | 700 mAmps | 50.4~60 Volts(DC) | 9~48Volts(DC) |
| LPC35-1050 | 30 Volts(DC) | 1050 mAmps | 31.5~40.5 Volts(DC) | 9~30Volts(DC) |
| LPC35-1400 | 24 Volts(DC) | 1400 mAmps | 27.6~32.4 Volts(DC) | 9~24Volts(DC) |



35W Single Output LED Lighting Power Supply

LPC35 series

INPUT SPECIFICATIONS

| | |
|-----------------------------|------------------------------------------------|
| Input Voltage (Note 3) | 90-264VAC |
| Frequency Range | 47-63 Hz |
| Input Current | 1.1 Amps max @ 115VAC 0.7 Amps max @ 230VAC |
| Inrush Current (Cold Start) | 30 Amps @ 115VAC max 60 Amps @ 230VAC max |
| Leakage Current | 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 zener 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 | 85% typ. |
| Isolation | 3000VAC I/P-O/P |
| Insulation Resistance | I/P-O/P > 100MΩ / 500VDC / 25°C/70% RH |

| | |
|------------------|---------------------------------------------------------------------------------------------------|
| EMS | Compliance to EN61000-4-2,3,4,6,8,11; ENV50204, EN55024, light industry level criteria A |
| EMI | Compliance to EN55022B (CISPR22B) |
| Harmonic Current | Compliance to EN61000-3-2,-3 |

ENVIRONMENTAL SPECIFICATIONS

| | |
|---------------------|---------------------------------------------------------------------------|
| Oper. Temperature | -30°C to +75°C (See Derate Curve) |
| Relative Humidity | 20~90% RH non cond |
| Storage Temperature | -40°C to +80°C, 10~95% RH |
| MTBF | 743.5KHrs 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 | 148 x 40 x 30 |
| Inches | 5.83" x 1.57" x 1.18" |
| Weight | 11.99 oz (340g) |

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.

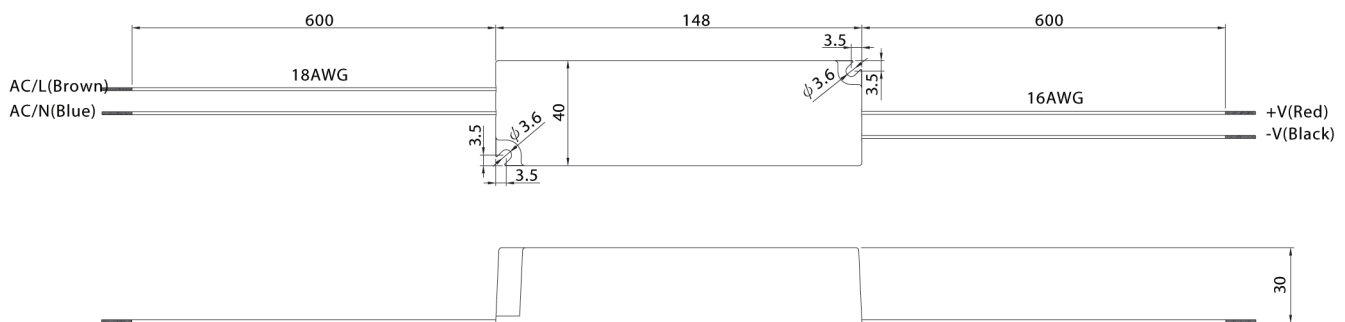
All specifications are typical at nominal input, full load, and 25°C unless otherwise noted

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

MECHANICAL DIMENSION

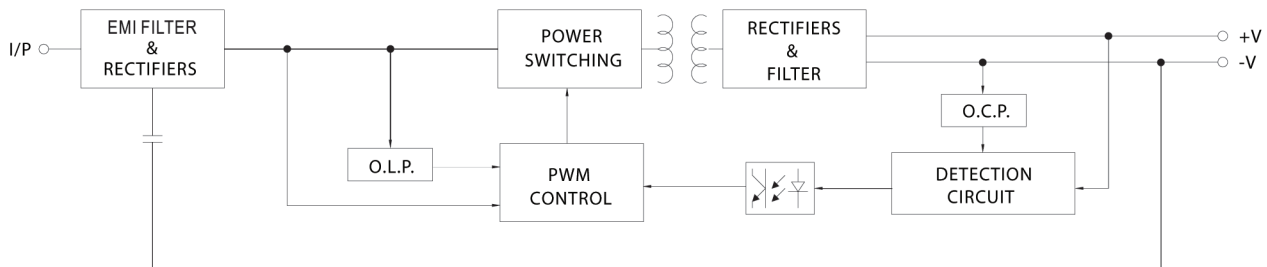
■ Mechanical Specification

Unit:mm

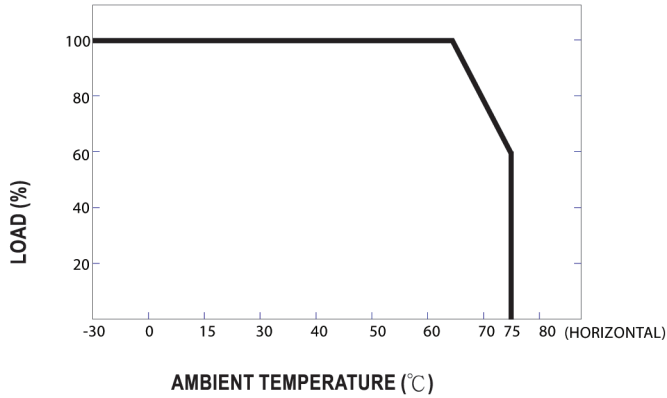


■ Block Diagram

fosc : 60KHz



Derating Curve



Static Characteristics

