



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

LPS IP67 c  us 

**Model Number   Output Volts   Output Amps   Efficiency   OVP   Ripple & Noise**

**SINGLE OUTPUT**

LPV35-5	5 Volts(DC)	5 Amps	77%	5.75~6.75 Volts(DC)	80mV pk-pk
LPV35-12	12 Volts(DC)	3 Amps	84%	13.8~16.2 Volts(DC)	120mV pk-pk
LPV35-15	15 Volts(DC)	2.4 Amps	84%	17.25~20.25 Volts(DC)	120mV pk-pk
LPV35-24	24 Volts(DC)	1.5 Amps	85%	27.6~32.4 Volts(DC)	150mV pk-pk
LPV35-36	36 Volts(DC)	1 Amps	85%	41.4~48.6 Volts(DC)	150mV pk-pk

## 35W Single Output Class 2 Switching Power Supply

## LPV35 series

### INPUT SPECIFICATIONS

Input Voltage Range	90-264VAC
Frequency Range	47-63 Hz
Input Current	1.1 Amps @ 115VAC 0.7 Amps @ 230VAC
Inrush Current, max, Cold Start	30Amps/115VAC ; 60Amps/230VAC
Leakage Current	0.25mAmps/240VAC

### OUTPUT SPECIFICATIONS

Voltage and Current (Note 4)	See Selection Chart
Line Regulation	±1.0%
Load Regulation	5Volts(DC) only: ±4.0% 12~36Volts(DC): ±2.0%
Ripple/Noise (Note 1)	See Selection Chart
Over Voltage Protection	See Selection Chart Shut down o/p voltage, re-power
Over Current Protection (Note 3)	110~150% rated output power Hiccup mode, auto recov after fault condition is removed
Voltage Tolerance (Note 2)	5Volts(DC) only: ±6.0% 12~36Volts(DC): ±5.0%
Setup, Rise Time @ FL	500ms, 20ms /230VAC/115VAC
Hold up Time, typ @ FL	50ms/230VAC ; 16ms/115VAC

### GENERAL SPECIFICATIONS

Safety	UL1310 Class 2, CAN/CSA C22.2 No 223-M91 IP67 approved, design refer to TUV EN60950-1, EN61347-2-13
EMI	Compliance to EN55022 (CISPR22) Class B
Isolation	3KVAC Input/Output
Resistance	I/P-O/P >100MΩ / 500VDC / 25°C/70%RH
Efficiency	See Selection Chart

Harmonic Current	Compliance to EN61000-3-2
EMS	Compliance to EN61000-4-2,3,4,6,8,11; ENV50204; EN55024 light industry level, criteria A

### 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 10min./1cycle, preiod 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)

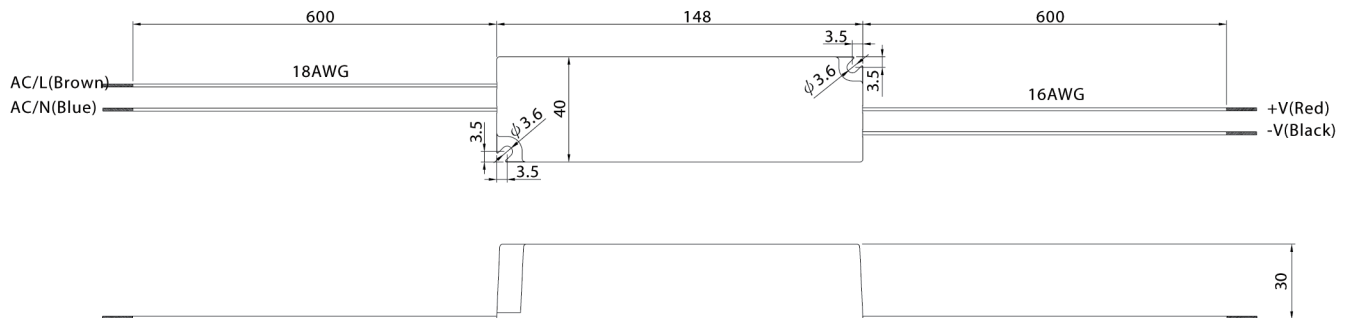
### NOTES

- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- Tolerance : includes set up tolerance, line regulation and load regulation.
- Derating may be needed under low input voltage. Please check the derating curve for more details.
- LPV-35-5 can provide 6A of output current continuously. Based on the requirement of UL1310 class 2, the output current is only certified up to 5A for the test report of LPV-35-5.

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

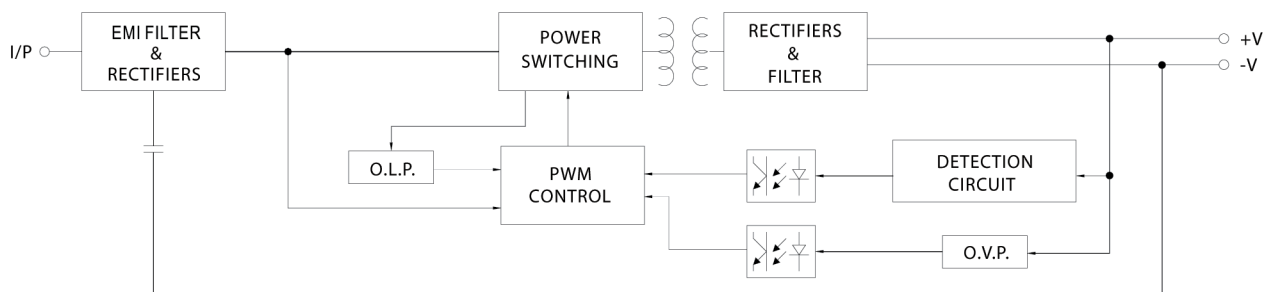
■ Mechanical Specification

Case No.975A Unit:mm

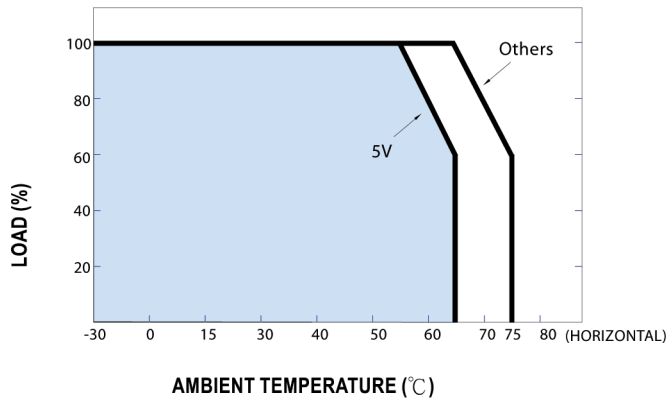


■ Block Diagram

fosc : 65KHz



■ Derating Curve



■ Static Characteristics

