



60W Single Output Switching Power Supply

LPC-60 series



Features :

- Constant current design
- Universal AC input / Full range
- Epoxy encapsulated with IP67 level
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Over current / Over voltage
- Fully isolated plastic case
- Cooling by free air convection
- UL1310 Class 2 power unit, pass LPS
- 100% full load burn-in test
- Low cost, high reliability
- Suitable for LED lighting and moving sign applications
- 2 years warranty

LPS IP67 (except for 34V) US (for 34V only)

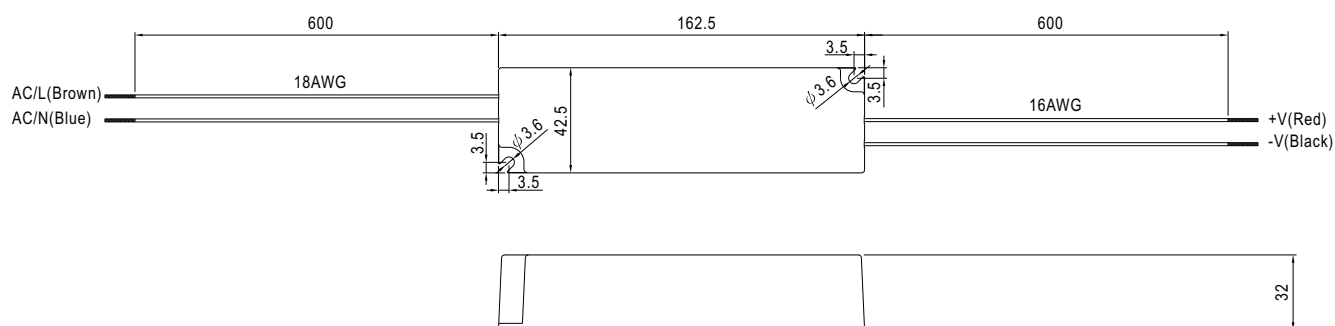
SPECIFICATION

MODEL	LPC-60-1050		LPC-60-1400		LPC-60-1750	
OUTPUT	DC VOLTAGE	48V		42V		34V
	DC VOLTAGE RANGE	9 ~ 48V		9 ~ 42V		9 ~ 34V
	CURRENT RANGE	1050mA		1400mA		1750mA
	RATED POWER	50.4W		58.8W		59.5W
	RIPPLE & NOISE (max.) Note.2	200mVp-p		200mVp-p		200mVp-p
	VOLTAGE TOLERANCE Note.3	±5.0%				
	LINE REGULATION	±1.0%				
	LOAD REGULATION	±2.0%				
	SETUP, RISE TIME Note.6	500ms, 120ms / 230VAC 500ms, 120ms / 115VAC at full load				
HOLD UP TIME (Typ.)	50ms/230VAC 16ms/115VAC at full load					
INPUT	VOLTAGE RANGE	90 ~ 264VAC				
	FREQUENCY RANGE	47 ~ 63Hz				
	EFFICIENCY (Typ.)	87%		85%		87%
	AC CURRENT	1.2A/115VAC 0.7A/230VAC				
	INRUSH CURRENT(max.)	COLD STAR 30A/115VAC 60A/230VAC				
	LEAKAGE CURRENT	0.25mA / 240VAC				
PROTECTION	CURRENT LIMIT Note.4	±5% rated output current				
		Protection type : Constant current limiting type				
	OVER VOLTAGE	50.4 ~ 60V		44.1 ~ 56.7V		39.1 ~ 45.9V
		Protection type : Shut off o/p voltage, clamping by TVS diode				
ENVIRONMENT	WORKING TEMP.	-30 ~ +70℃ (Refer to output load derating curve)				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
SAFETY & EMC	SAFETY STANDARDS	UL1310 Class 2, CAN/CSA C22.2 No. 223-M91(for 34V only), IP67 approved, design refer to TUV EN60950-1, EN61347-2-13				
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC				
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25℃ / 70% RH				
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B				
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3				
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A				
OTHERS	MTBF	732Khrs min. MIL-HDBK-217F (25℃)				
	DIMENSION	162.5*42.5*32mm (L*W*H)				
	PACKING	0.4Kg; 32pcs/13.8Kg/0.56CUFT				
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Derating may be needed under low input voltage. Please check the derating curve for more details. 5. The power supply is considered a component which will be installed a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 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.					



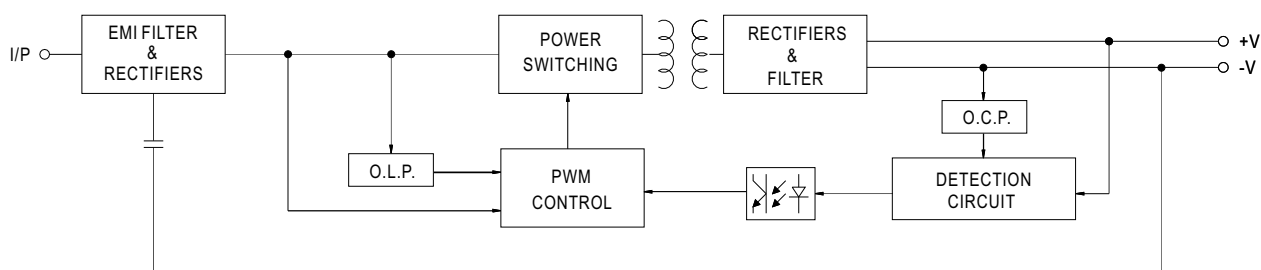
■ Mechanical Specification

Case No. 976A Unit:mm

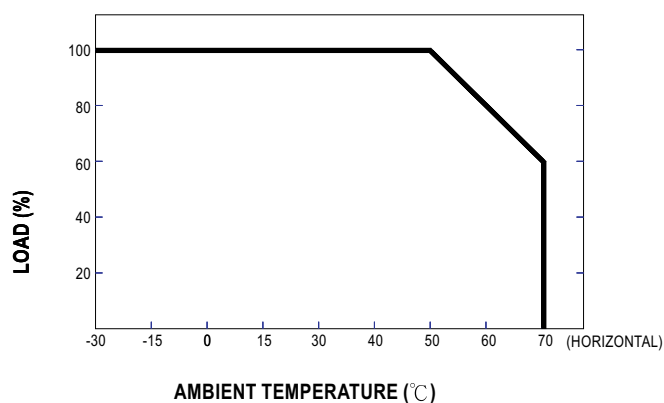


■ Block Diagram

fosc : 60KHz



Derating Curve



■ Static Characteristics

