



18W Single Output Switching Power Supply

LPL-18 series



■ Features :

- 90-132VAC input only
- Fully encapsulated with IP67 level
- Protections: Short circuit/Over load/Over voltage/Over temperature
- Cooling by free air convection
- Pass LPS
- 100% full load burn-in test
- Suitable for LED lighting and moving sign applications
- High reliability/Low cost
- 2 years warranty

SPECIFICATION

LPS IP67 FC C E (LVD)

MODEL		LPL-18-12		LPL-18-24		LPL-18-36	
OUTPUT	DC VOLTAGE	12V		24V		36V	
	RATED CURRENT	1.5A		0.75A		0.5A	
	CURRENT RANGE	0 ~ 1.5A		0 ~ 0.75A		0 ~ 0.5A	
	RATED POWER	18W		18W		18W	
	RIPPLE & NOISE (max.) Note.2	120mVp-p		150mVp-p		200mVp-p	
	VOLTAGE TOLERANCE Note.3	±3.0%					
	LINE REGULATION	±1.0%					
	LOAD REGULATION	±2.0%					
	SETUP, RISE TIME	1500ms, 30ms / 115VAC					
	HOLD UP TIME (Typ.)	20ms/115VAC at full load					
INPUT	VOLTAGE RANGE	90 ~ 132VAC					
	FREQUENCY RANGE	47 ~ 63Hz					
	EFFICIENCY(Typ.)	80%		83%		84%	
	AC CURRENT	0.5A/115VAC					
	INRUSH CURRENT(max.)	Cold start 40A/115VAC					
	LEAKAGE CURRENT	0.25mA / 115VAC					
PROTECTION	OVER CURRENT	Above 105% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed					
	OVER VOLTAGE	13.8~ 16.2V		27.6~ 32.4V		41.4 ~ 48.6V	
		Protection type : Shut off o/p voltage, clamping by zener diode					
	OVER TEMPERATURE	Tj 140℃ typically (U1) detect on main control IC Protection type :Shut down, recovers automatically after temperature goes down					
ENVIRONMENT	WORKING TEMP.	-25 ~ 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	Design refer to UL1310 Class 2,TUV EN60950-1, EN61347-2-13, CAN/CSA C22.2 No. 223-M91, IP67 approved					
	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, FCC Part 15					
	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	1207.4Khrs min. MIL-HDBK-217F(25℃)					
	DIMENSION	140*30*20(L*W*H)					
	PACKING	0.175Kg; 70pcs/13.3Kgs/0.66CUFT					
NOTE	1. All parameters NOT specially mentioned are measured at 115VAC 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. 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 directive						

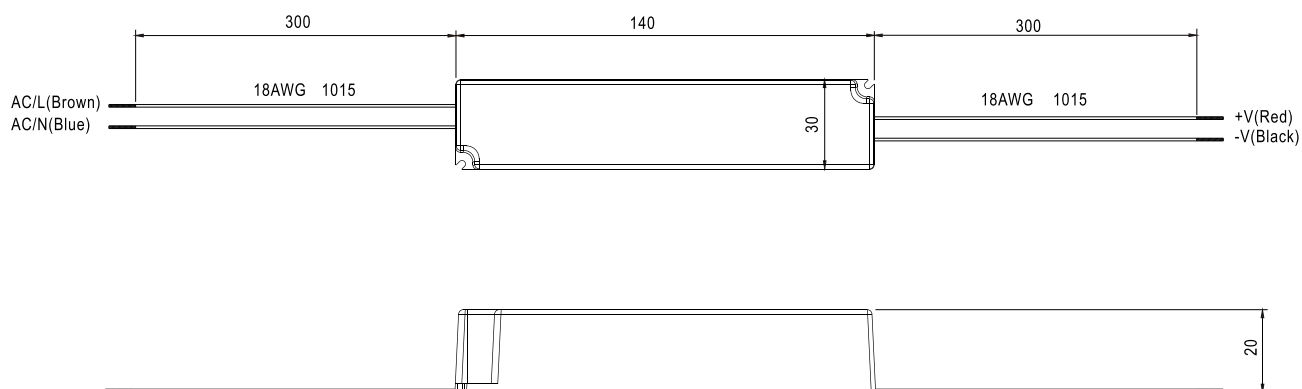


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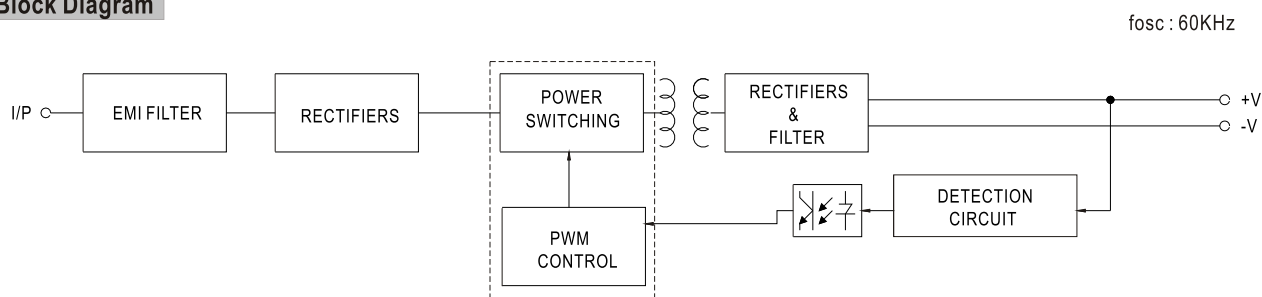
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Mechanical Specification

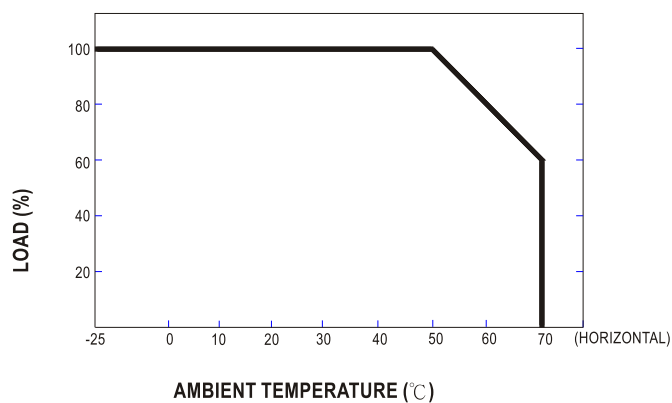
Unit:mm



Block Diagram



Derating Curve



Static Characteristics

