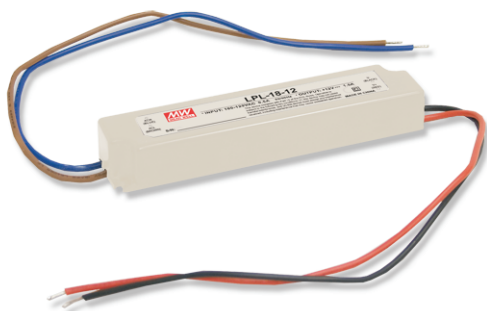




18W Single Output Switching Power Supply

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

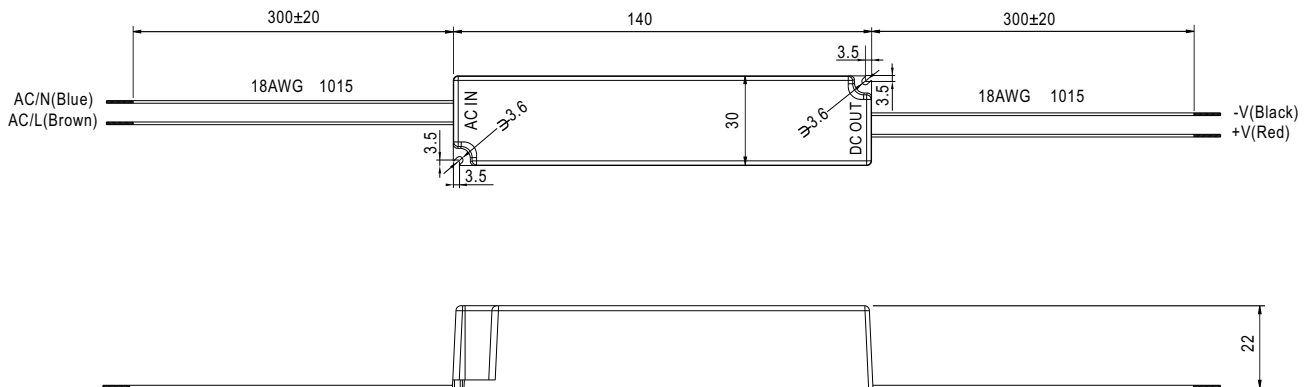
SPECIFICATION

LPS IP67 FC C E (LVD)

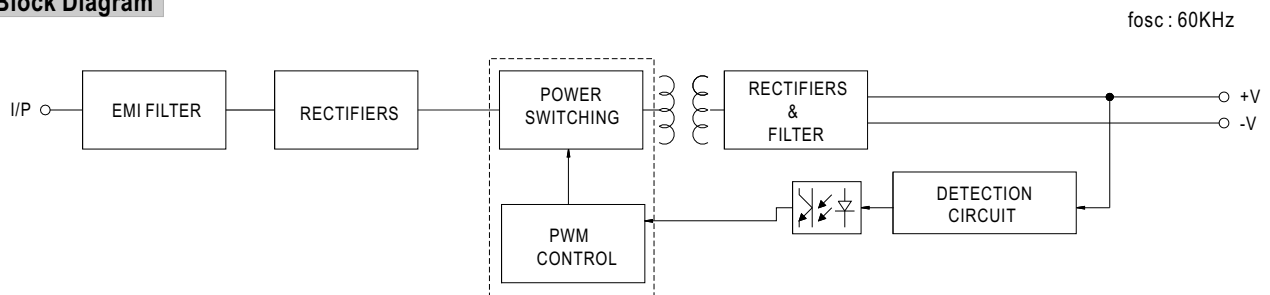
MODEL		LPL-18-12		LPL-18-24	LPL-18-36
OUTPUT	DC VOLTAGE	12V		24V	36V
	RATED CURRENT	1.5A		0.75A	0.5A
	CURRENT RANGE	0 ~ 1.5A		0 ~ 0.75A	0 ~ 0.5A
	RATED POWER	18W		18W	18W
	RIPPLE & NOISE (max.) Note.2	120mVp-p		150mVp-p	200mVp-p
	VOLTAGE TOLERANCE Note.3	±3.0%			
	LINE REGULATION	±1.0%			
	LOAD REGULATION	±2.0%			
	SETUP, RISE TIME	1500ms, 30ms / 115VAC			
	HOLD UP TIME (Typ.)	20ms/115VAC at full load			
INPUT	VOLTAGE RANGE	90 ~ 132VAC 127 ~ 186VDC			
	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.	-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	IP67 approved; design refer to UL1310 Class 2,TUV EN60950-1, EN61347-2-13, CAN/CSA C22.2 No. 223-M91			
	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 Class A,EN61000-3-3			
OTHERS	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A			
	MTBF	1207.4Khrs min. MIL-HDBK-217F(25℃)			
	DIMENSION	140*30*22(L*W*H)			
	PACKING	0.175Kg; 70pcs/13.3Kgs/0.71CUFT			
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 as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.				

Mechanical Specification

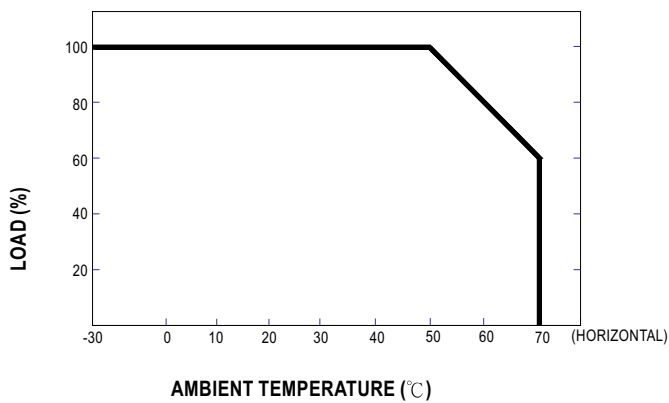
Unit:mm



Block Diagram



Derating Curve



Static Characteristics

