



■ Features :

- 180-264VAC input only
- Fully encapsulated with IP67 level (Note.5)
- Protections: Short circuit / Over load / Over voltage / Over temperature
- Cooling by free air convection
- Class II power unit, no FG
- Pass LPS
- 100% full load burn-in test
- Suitable for LED lighting and moving sign applications
- High reliability / Low cost
- 2 years warranty

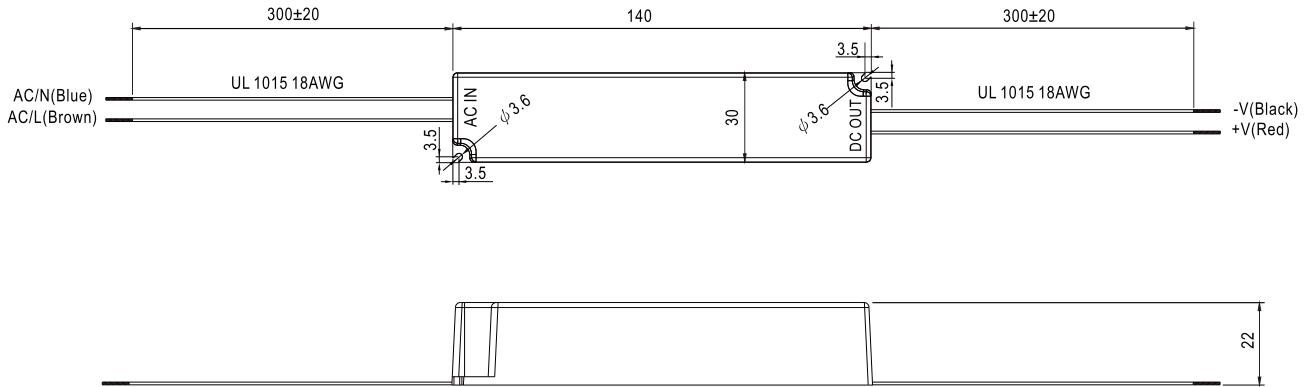
□ LPS IP67  

SPECIFICATION

MODEL		LPH-18-12		LPH-18-24	LPH-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 / 230VAC			
	HOLD UP TIME (Typ.)	50ms/230VAC at full load			
INPUT	VOLTAGE RANGE	180 ~ 264VAC		254 ~ 370VDC	
	FREQUENCY RANGE	47 ~ 63Hz			
	EFFICIENCY(Typ.)	77%		82%	83%
	AC CURRENT	0.3A/230VAC			
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=155μs measured at 50% Ipeak) at 230VAC			
	LEAKAGE CURRENT	0.25mA / 240VAC			
PROTECTION	OVER LOAD	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 170℃ typically (U1) Detect on main control IC Protection type : Hiccup mode, recovers automatically after temperature goes down			
ENVIRONMENT	WORKING TEMP.	-30~ +70℃ (Refer to "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 (Note 4)	SAFETY STANDARDS	TUV EN60950-1, IP67 approved; design refer to UL1310 Class 2,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			
	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3			
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A			
OTHERS	MTBF	1200.6K hrs 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 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. 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. 5. Suitable for indoor use or outdoor use without direct sunlight exposure. 6. The unit might not be suitable for lighting applications in EU countries. Please check with your local authorities for the possible use of the unit.				

Mechanical Specification

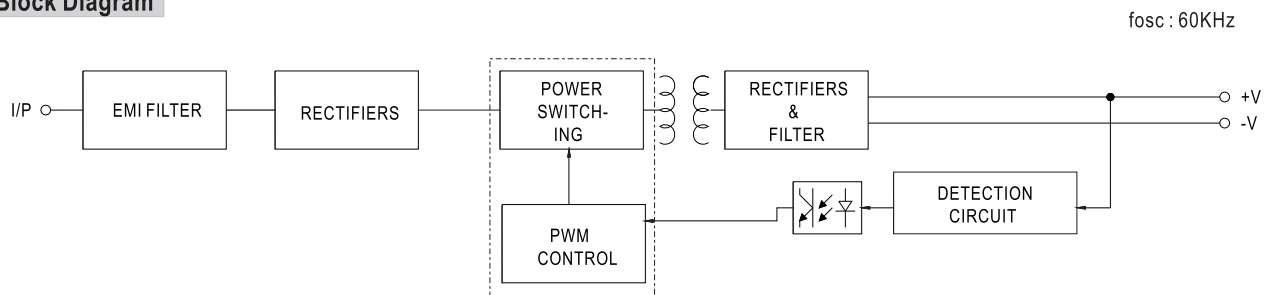
Unit:mm



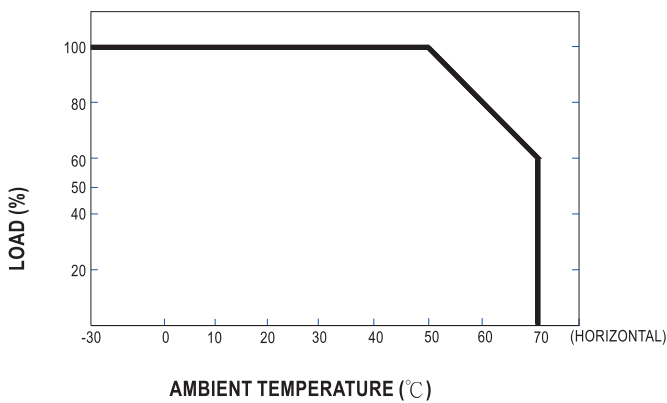
Recommend Mounting Direction



Block Diagram



Derating Curve



Static Characteristics

