



18W Single Output Switching Power Supply

LPH-18 series



■ Features :

- 180-264VAC input only
- Fully encapsulated with IP67 level (Note.5)
- Protections:Short circuit / Overload / 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 related fixture or appliance (such as LED Decoration or Advertisement devices)
- High reliability / Low cost
- 2 years warranty

User's Manual



IS 15885(Part 2/Sec13)

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R-41027766
(except for LPH-18-36)



EAC CB CE UK CA

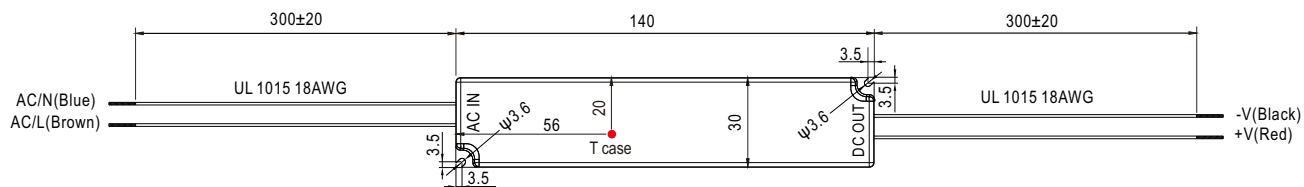
SPECIFICATION

□ LPS IP67

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					
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	17 units (circuit breaker of type B) / 28 units (circuit breaker of type C) at 230VAC					
	LEAKAGE CURRENT	0.25mA / 240VAC					
PROTECTION	OVERLOAD	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	
	OVER TEMPERATURE	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	IEC/BS EN/EN 62368-1, BIS IS15885(except for LPH-18-36), EAC TP TC 004, IP67 approved; design refer to UL1310 Class 2, CAN/CSA 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 BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2 Class A, BS EN/EN61000-3-3, EAC TP TC 020					
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55024, light industry level, criteria A, EAC TP TC 020					
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. This product is not intended for LED applications in the EU.(In the EU NPF/LPF/XLG series are recommended.) 7. To fulfill requirements of latest ErP regulation for lighting luminaires, this LED Driver can only be used behind a switch without permanently connected to mains. ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx						

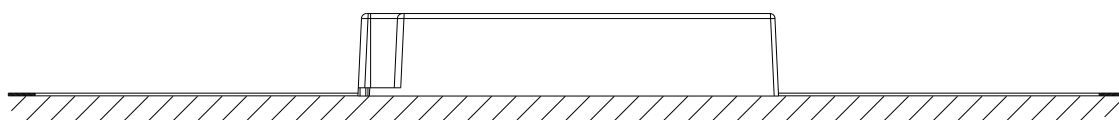
■ Mechanical Specification

Unit:mm

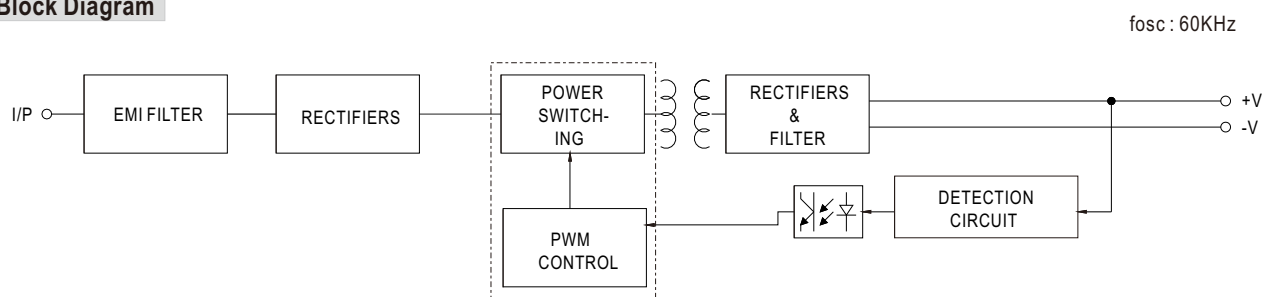


※ T case: Max. Case Temperature

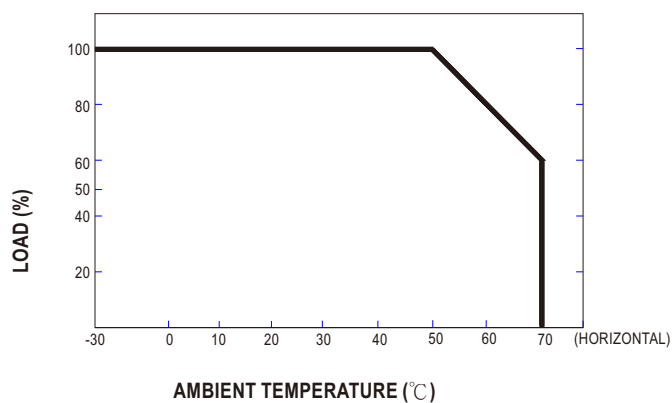
■ Recommend Mounting Direction



■ Block Diagram



Derating Curve



■ Static Characteristics

