18W Single Output Switching Power Supply — LPHC-18 series



User's Manual

Features :

- Constant current mode power supply
- 180-264VAC input only
- Fully encapsulated with IP67 level (Note.6)
- Protections:Short circuit / 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

LPS IP67 IS 15885

GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

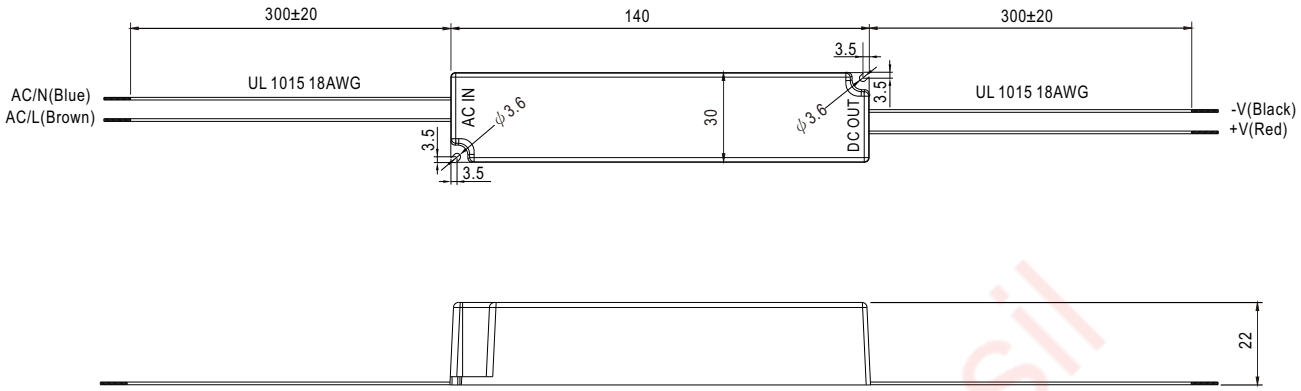
SPECIFICATION

MODEL		LPHC-18-350	LPHC-18-700
OUTPUT	RATED CURRENT	350mA	700mA
	DC VOLTAGE RANGE	6~48V	6~25V
	RATED POWER	16.8W	17.5W
	RIPPLE & NOISE (max.) Note.2	300mVp-p	250mVp-p
	VOLTAGE TOLERANCE Note.3	±5.0%	
	CURRENT ACCURACY	±8.0%	
	LINE REGULATION	±1.0%	
	LOAD REGULATION	±3.0%	
	SETUP, RISE TIME	3600ms, 100ms / 230VAC	
	HOLD UP TIME (Typ.)	20ms/230VAC at full load	
INPUT	VOLTAGE RANGE	180 ~ 264VAC 254 ~ 370VDC	
	FREQUENCY RANGE	47 ~ 63Hz	
	EFFICIENCY(Typ.)	80%	80%
	AC CURRENT	0.3A/230VAC	
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=190μs measured at 50% Ipeak) at 230VAC	
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	13 units (circuit breaker of type B) / 22 units (circuit breaker of type C) at 230VAC	
	LEAKAGE CURRENT	0.25mA / 240VAC	
PROTECTION	OVER VOLTAGE	50.4~ 60V	28.75~ 33.75V
		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	±0.2%/℃ (0 ~ 50℃)	
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes	
SAFETY & EMC (Note 5)	SAFETY STANDARDS	BIS IS15885, EAC TP TC 004, IP67,LVD BS EN/EN62368-1 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 BS EN/EN55032 (CISPR32) Class A, 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/EN55035, light industry level, EAC TP TC 020	
OTHERS	MTBF	7399.9K hrs min. Telcordia SR-332 (Bellcore) ; 1086.9Khrs 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°C 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 static characteristic for more details. 5. 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. 6. Suitable for indoor use or outdoor use without direct sunlight exposure. 7. This product is not intended for LED applications in the EU.(In the EU NPF/LPF/XLG series are recommended.) 8. 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		

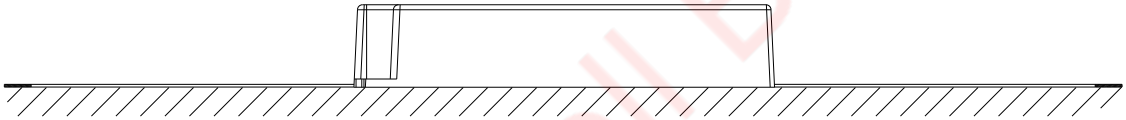
Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Mechanical Specification

Unit:mm

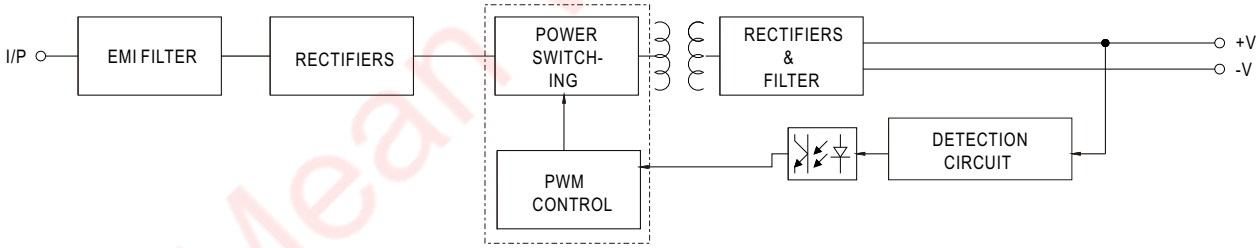


Recommend Mounting Direction

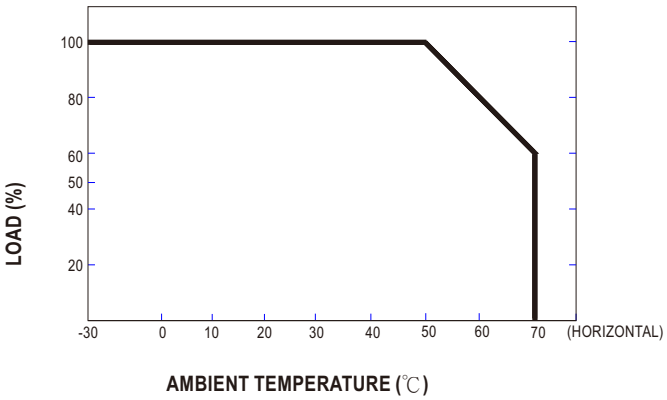


Block Diagram

fosc : 60KHz

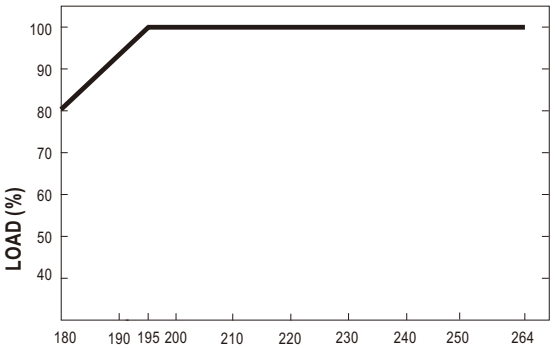


Derating Curve



AMBIENT TEMPERATURE (℃)

Static Characteristics



INPUT VOLTAGE (VAC) 60Hz

Mean Well Brasil

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000