60W Single Output Switching Power Supply — LPF-60 series

Features :

- Constant voltage design
- Universal AC input / Full range
- Protections: Short circuit / Over load / Over voltage
- Cooling by free air convection
- Built-in active PFC ,PF>0.9
- Fully encapsulated with IP65 level
- Fully isolated plastic case
- Class II power unit, no FG,Class 2 power unit,Meet LPS
- Suitable for LED related fixture or appliance
- Low cost, high reliability
- 2 years warranty

CE LPS IP65

SPECIFICATION

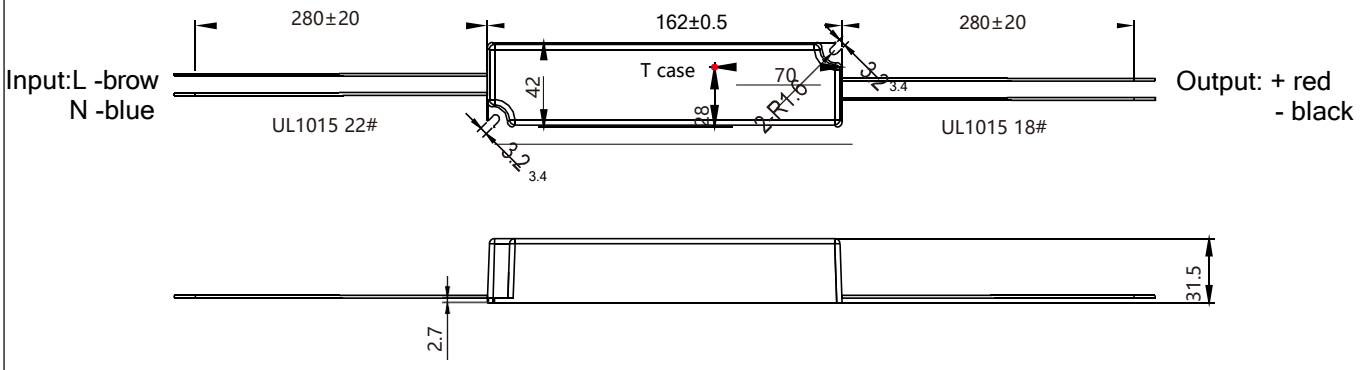
MODEL		LPF-60-12	LPF-60-24	LPF-60-36	LPF-60-48
UBC order P/N		PGZW60V0012NSFPC3	PGZW60V0024NSFPC3	PGZW60V0036NSFPC3	PGZW60V0048NSFPC3
OUTPUT	DC VOLTAGE	12V	24V	36V	48V
	RATED CURRENT	5A	2.5A	1.67A	1.25A
	CURRENT RANGE	0 ~ 5A	0 ~ 2.5A	0 ~ 1.76A	0 ~ 1.25A
	RATED POWER	60W	60W	60W	60W
	RIPPLE & NOISE (max.) Note.2	20% output voltage mVp-p			
	VOLTAGE TOLERANCE Note.3	±7.0%			
	LINE REGULATION	±5.0%			
	LOAD REGULATION	±5.0%			
	SETUP, RISE TIME Note.6	1000ms, 20ms / 230VAC 500ms, 20ms / 115VAC at full load			
	HOLD UP TIME (Typ.)	50ms/230VAC 16ms/115VAC at full load			
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	EFFICIENCY (Typ.)	83%	86%	87%	88%
	AC CURRENT (Typ.)	1.2A/115VAC 1A/230VAC			
	INRUSH CURRENT(Typ.)	COLD START 60A(twidth=525μs measured at 50% Ipeak) at 230VAC			
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC			
	LEAKAGE CURRENT	0.25mA / 240VAC			
PROTECTION	OVER LOAD	110 ~ 150% rated output power			
		Protection type : Hiccup mode, recovers automatically after fault condition is removed			
	OVER VOLTAGE	110% output voltage			
		Protection type : Shut down o/p voltage, re-power on to recover			
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	SAFETY STANDARDS	Design refer to UL8750, EN61347, EN61347-2-13			
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC			
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25℃/ 70% RH			
	EMC EMISSION& IMMUNITY	Compliance to EN55015, FCC Part 15 Class B, EN61000-3-2, EN61000-3-3, EN61000-4-2, 3, 4, 6, 8, 11, EN61547			
OTHERS	MTBF	732Khrs min. MIL-HDBK-217F (25℃)			
	DIMENSION	162.5*42.5*32mm (L*W*H)			
	PACKING	0.4Kg; 32pcs/13.8Kg/0.63CUFT			

NOTE

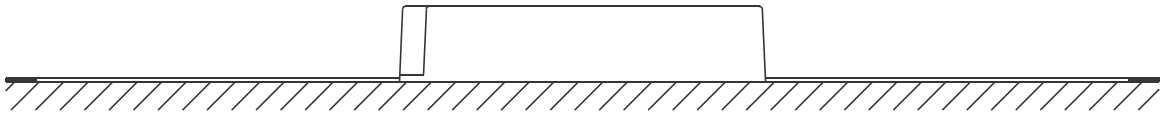
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambienttemperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
3. Tolerance : includes set up tolerance, line regulation and load regulation.
4. Derating may be needed under low input voltage. Please check the static characteristics 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. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.
7. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.
8. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).
9. For any application note and IP water proof function installation caution, please refer our user manual before using.
10. 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.

Mechanical Specification

Unit:mm

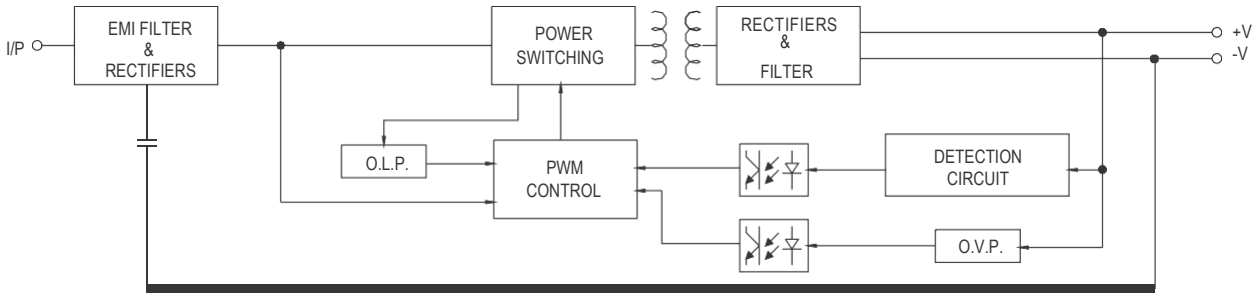


Recommend Mounting Direction

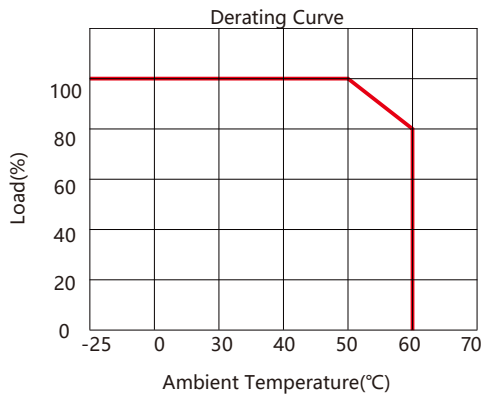


Block Diagram

fosc : 65KHz



Derating Curve



Static Characteristics