



Features:

- Universal AC input / Full range (up to 305VAC)
- Protections: Short circuit / Over current / Over voltage / Over temperature
- · Built-in active PFC function
- · Cooling by free air convection
- Fully isolated plastic case with IP30 level (Note.8)
- Class II power unit, no FG
- Class 2 power unit
- IP67(optional , model NO. : LPF-16- $\boxed{12}$ P)
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp locations(wet location for LPF-16-12 P)
- 5 years warranty

MODEL		LPF-16-12	LPF-16-15	LPF-16-20	LPF-16-24	LPF-16-30	LPF-16-36	LPF-16-42	LPF-16-48	LPF-16-54
ОИТРИТ	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V
	CONSTANT CURRENT REGION Note.4	6.6 ~12V	8.25 ~ 15V	11 ~ 20V	13.2 ~ 24V	16.5 ~ 30V	19.8 ~ 36V	23.1 ~ 42V	26.4 ~ 48V	29.7 ~ 54\
	RATED CURRENT	1.34A	1.07A	0.8A	0.67A	0.54A	0.45A	0.39A	0.34A	0.3A
	RATED POWER	16.08W	16.05W	16W	16.08W	16.2W	16.2W	16.38W	16.32W	16.2W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p
	VOLTAGE TOLERANCE Note.3	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME Note.6	1500ms, 80ms / 115VAC at full load 500ms, 80ms / 230VAC								
	HOLD UP TIME (Typ.)	16ms at full load 230VAC /115VAC								
INPUT	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF>0.97/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load (Please refer to "Power Factor Characteristic" curve)								
	TOTAL HARMONIC DISTORTION	THD< 20% when output loading≧60% at 115VAC/230VAC input and output loading≧75% at 277VAC input								
	EFFICIENCY (Typ.)	84%	84%	86%	86%	86%	86%	86%	86%	86%
	AC CURRENT	0.4A / 115VA	C 0.25A/	230VAC 0.2	2A/277VAC					•
	INRUSH CURRENT (Typ.)	COLD START 45A(twidth=200µs measured at 50% Ipeak) at 230VAC								
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	14 units (circuit breaker of type B) / 24 units (circuit breaker of type C) at 230VAC								
	LEAKAGE CURRENT	<0.75mA / 240VAC								
PROTECTION	OVER CURRENT Note.4	95 ~ 108%								
		Protection type: Constant current limiting, recovers automatically after fault condition is removed								
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.								
		15 ~ 18V								
	OVER VOLTAGE	Protection type: Shut down and latch off o/p voltage, re-power on to recover								
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down								
ENVIRONMENT	WORKING TEMP.	-35 ~ +70°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 95% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)								
	VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes								
	VIDICATION	UL8750, CSA C22.2 No. 250.0-08,EN61347-1, EN61347-2-13 independent,EN62384,J61347-1,								
	SAFETY STANDARDS	J61347-2-13 approved,IP67 (optional); Design refer to UL60950-1, TUV EN60950-1								
	WITHSTAND VOLTACE	1/P-O/P:3.75KVAC								
SAFETY &	WITHSTAND VOLTAGE									
EMC	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH								
	EMC EMISSION	Compliance to EN55015; EN61000-3-2 Class C (≥50% load); EN61000-3-3								
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547,light industry level(surge 2KV), criteria A								
	MTBF	473.3Khrs min. MIL-HDBK-217F (25°C) 148*40*32mm (L*W*H)								
	DIMENSION		,	LICT						
NOTE	Ripple & noise are measure Tolerance : includes set up Constant current operation reconfirm special electrical r Derating may be needed ur Length of set up time is me- The power supply is conside	0.21Kg; 40pcs/9.4Kg/1.02CUFT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. s set up tolerance, line regulation and load regulation. peration region is within 50% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please ectrical requirements for some specific system design. peeded under low input voltages. Please check the static characteristics for more details. The seconsidered as a component start. Turning ON/OFF the power supply may lead to increase of the set up time. S considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the parallel of the complete installation again.								

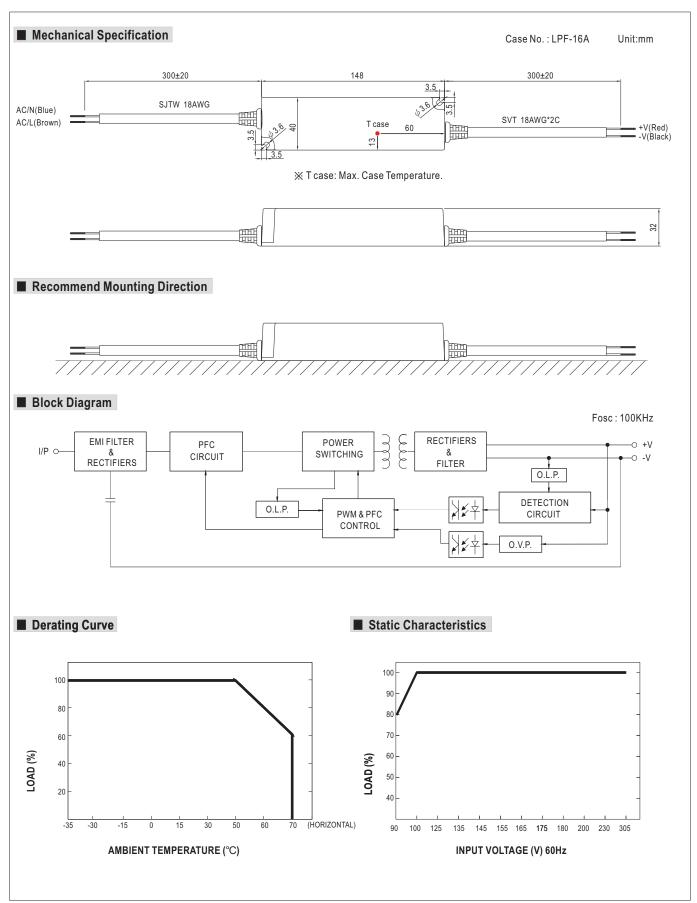
complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

9.To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently

8. Suitable for indoor use.

connected to the mains.

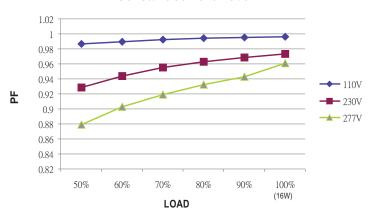






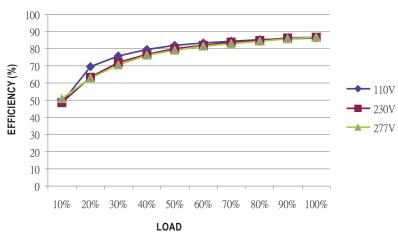
■ Power Factor Characteristic

Constant Current Mode



■ EFFICIENCY vs LOAD (48V Model)

LPF-16 series possess superior working efficiency that up to 86% can be reached in field applications.

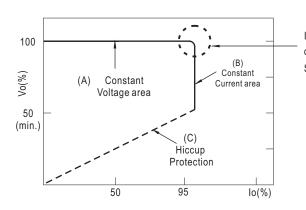


■ DRIVING METHODS OF LED MODULE

There are two major kinds of LED drive method "direct drive" and "with LED driver".

A typical LED power supply may either work in "constant voltage mode (CV) or constant current mode (CC)" to drive the LEDs.

Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).



Typical LED power supply I-V curve

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.

AMEYA360 Components Supply Platform

Authorized Distribution Brand:

























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