





- 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

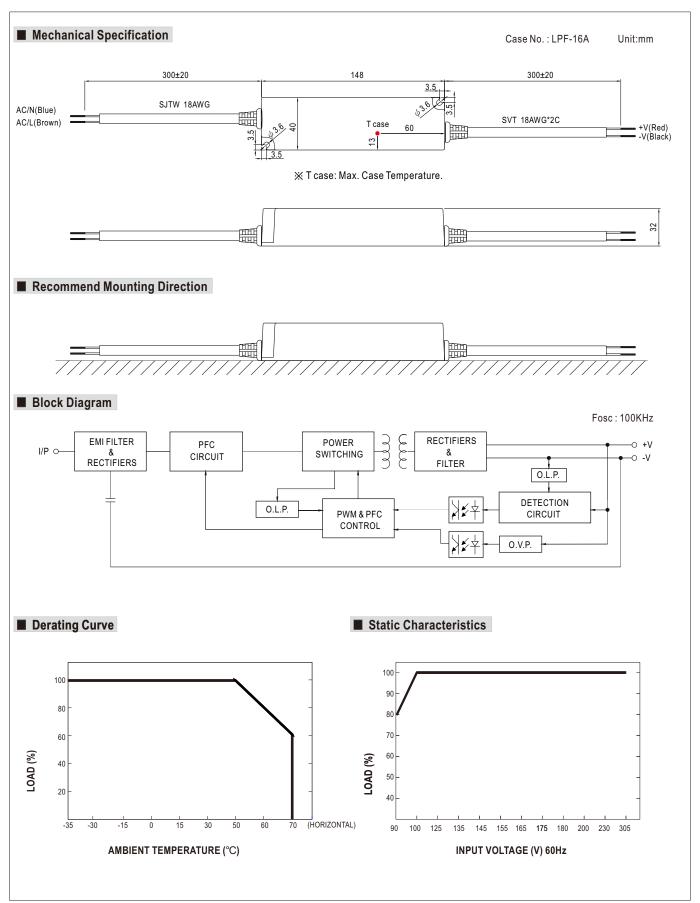
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- Fully isolated plastic case with IP30 level (Note.8)
- Class II power unit, no FG
- Class 2 power unit
- IP67(optional, model NO.: LPF-16-12 P)
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations 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 ~ 54V	
	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, 80m	s / 115VAC at	full load 150	0ms, 80ms / 20	30VAC	<u>'</u>	•	·	'	
	HOLD UP TIME (Typ.)	16ms at full load 230VAC /115VAC									
INPUT		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)									
	EFFICIENCY (Typ.)	84%	84%	86%	86%	86%	86%	86%	86%	86%	
	AC CURRENT	0.4A / 115VA		230VAC 0.2	A/277VAC		1 1 1 1				
	INRUSH CURRENT (Typ.)	COLD START 45A(twidth=200µs measured at 50% Ipeak) 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	-		matically after			iault condition	is removed			
	SHOKT CIKCOTT	15 ~ 18V	17.5 ~ 21V	23 ~ 27V	28 ~ 35V	34 ~ 40V	41 ~ 49V	46 ~ 54V	54 ~ 63V	59 ~ 66V	
	OVER VOLTAGE					1		10 010	04 00 0	00 001	
		Protection type: Shut down and latch off o/p voltage, re-power on to recover 100°C±5°C(TSW1) Detect on U2									
	OVER TEMPERATURE	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down									
ENVIRONMENT	WORKING TEMP										
	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									
	SAFETY STANDARDS	UL8750, CSA C22.2 No. 250.0-08,EN61347-1, EN61347-2-13 independent,EN62384,J61347-1,									
		J61347-2-13 approved,IP67 (optional) ; Design refer to UL60950-1, TUV EN60950-1									
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC									
EMC	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/70% RH									
	EMC EMISSION	Compliance to EN55015; EN61000-3-2 Class C ($\geq\!50\%$ load) ; EN61000-3-3									
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547,light industry level(surge 2KV), criteria A									
OTHERS	MTBF	473.3Khrs min. MIL-HDBK-217F (25°C)									
	DIMENSION	148*40*32mı	148*40*32mm (L*W*H)								
	PACKING	0.21Kg; 40pc	s/9.4Kg/1.02C	UFT							
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	Illy mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. region is within 50% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please requirements for some specific system design. Inder low input voltages. Please check the static characteristics for more details. Beasured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. Bered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the hall equipment manufacturers must re-qualify EMC Directive on the complete installation again.									

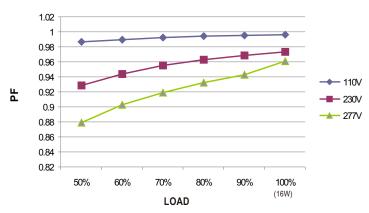






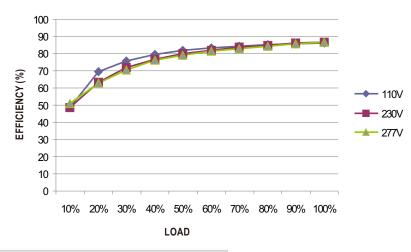
■ Power Factor Characteristic





■ EFFICIENCY vs LOAD (48V Model)

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

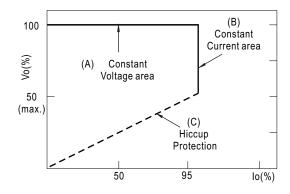


■ DRIVING METHODS OF LED MODULE

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