



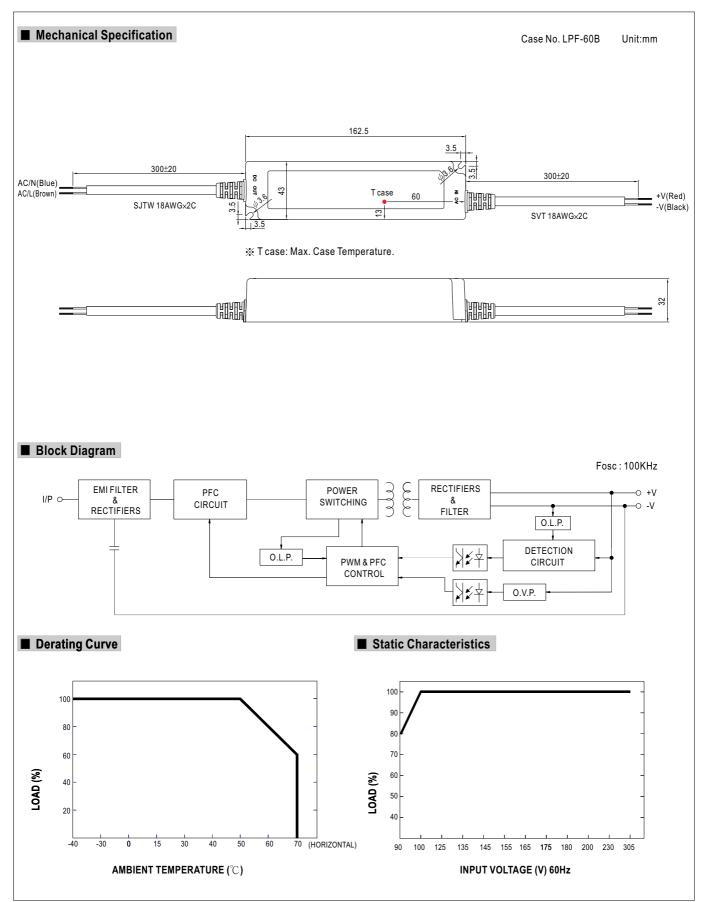
Features:

- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- High efficiency up to 89%
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Fully isolated plastic case
- Fully encapsulated with IP67 level (Note.6)
- Class Ⅱ power unit, no FG
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp / wet locations
- 3 years warranty

D D F VIO W SELV IP67 P N (for 48V,54V only) c N US (except for 48V,54V) CBCE

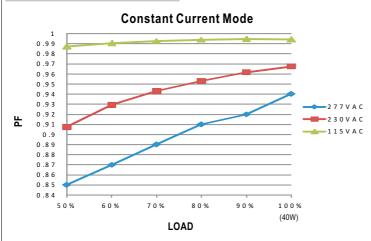
MODEL		LPF-40-12	LPF-40-15	LPF-40-20	LPF-40-24	LPF-40-30	LPF-40-36	LPF-40-42	LPF-40-48	LPF-40-54	
ОИТРИТ	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V	
	CONSTANT CURRENT REGION Note.4	7.2 ~12V	9 ~ 15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	25.2 ~ 42V	28.8 ~ 48V	32.4 ~ 54V	
	RATED CURRENT	3.34A	2.67A	2A	1.67A	1.34A	1.12A	0.96A	0.84A	0.76A	
	RATED POWER	40.08W	40.08W	40W	40.08W	40.2W	40.32W	40.32W	40.32W	41.04W	
	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.7	1000ms, 80ms / 115VAC at full load 1200ms, 80ms / 230VAC									
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load									
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)									
	EFFICIENCY (Typ.)	84%	85%	86%	87%	88%	88%	88.5%	90%	90%	
	AC CURRENT (Typ.)	0.6A / 115VAC 0.3A / 230VAC									
	INRUSH CURRENT (Typ.)	COLD START 75A/230VAC									
	LEAKAGE CURRENT	<0.75mA / 240VAC									
PROTECTION	OVER CURRENT Note.4	95 ~ 108%									
			o · Constant o	current limiting	recovere auto	matically after	fault condition	is removed			
	SHORT CIRCUIT	Protection type: Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed.									
	OHORT OIROUT	15 ~ 17V	17.5 ~ 21V	23 ~ 27V	28 ~ 35V	34 ~ 40V	41 ~ 49V	46 ~ 54V	54 ~ 63V	59 ~ 66V	
	OVER VOLTAGE					1 *		10 011	01 001	100 001	
	OVER TEMPERATURE	Protection type: Shut down and latch off o/p voltage, re-power on to recover 90°C ±10°C (RTH2)									
		Protection type: Shut down o/p voltage, re-power on to recover									
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 95% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT										
	VIBRATION	±0.03% °C (0 ~ 50°C)									
	-	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
SAFETY & EMC	SAFETY STANDARDS Note.6	, , , , , , , , , , , , , , , , , , , ,									
	WITHSTAND VOLTAGE	I/P-0/P:3.75KVAC									
	ISOLATION RESISTANCE	I/P-0/P:100M Ohms / 500VDC / 25°C / 70% RH									
	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (≥60% load); EN61000-3-3									
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024, light industry level(surge 2KV), criteria A									
OTHERS	MTBF	438.8Khrs min. MIL-HDBK-217F (25°C)									
	DIMENSION	162.5*43*32mm (L*W*H) 0.44Kq; 32pcs/15.08Kq/0.93CUFT									
	PACKING	0.44Kg; 32pc	s/15.08Kg/0.9	3CUF1							
NOTE	Ripple & noise are measure Tolerance : includes set up Constant current operation reconfirm special electrical is Derating may be needed ur Suitable for indoor use or or Length of set up time is me The power supply is consid	ars NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. See are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Includes set up tolerance, line regulation and load regulation. Trent operation region is within 60% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please ecial electrical requirements for some specific system design. The special electrical requirements for some specific system design. The special electrical requirements for some specific system design. The special electrical requirements for some specific system design. The special electrical requirements for some specific system design. The special electrical requirements for some specific system design. The special electrical requirements for some specific system design. The special electrical requirements for some specific system design. The special electrical requirements for some specific system design. The special electrical requirements for some specific system design. The special electrical requirements for some specific system design. The special electrical requirement is explained applications, but please every electrical requirements. The special electrical requirements for some specific system design. The special electrical requirements for some specific system design. The special electrical requirements for some specific system design. The special electrical requirements for some specific system design. The special electrical requirements for some specific system design. The special electrical requirements for some specific system design. The special electrical requirements for some specific system design. The special electrical requirements for some specific system design. The special electrical requirements for some specific system design. The special electrical requirements for some special electrical electrical electrical electrical electrical elect									





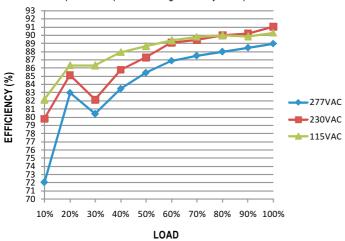


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

LPF-40 series possess superior working efficiency that up to 90% can be reached in field applications.

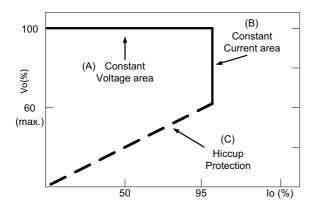


■ DRIVING METHODS OF LED MODULE

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