





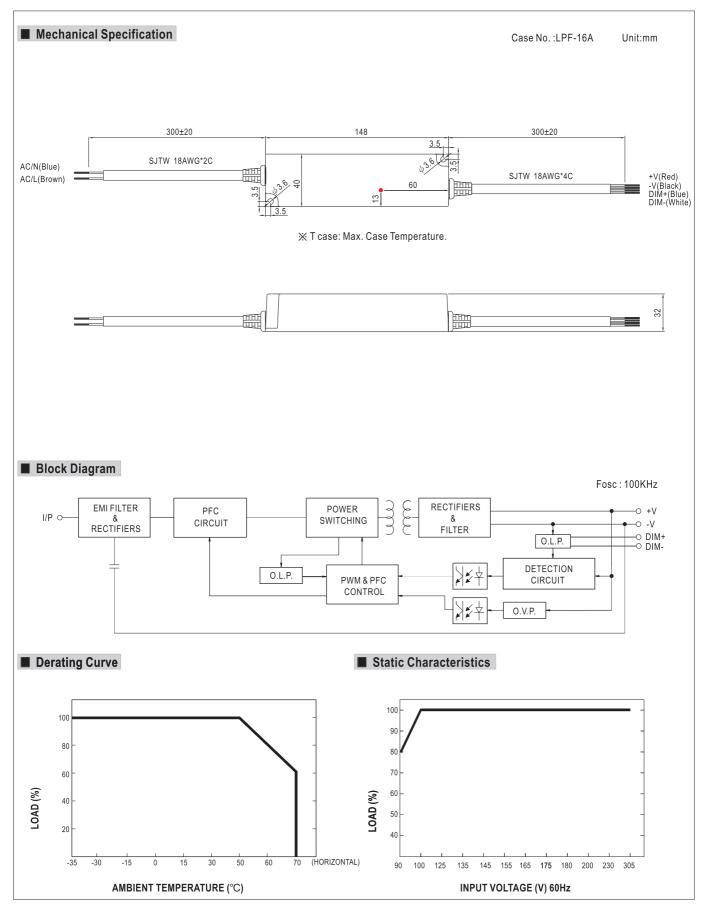
- Universal AC input / Full range (up to 305VAC)
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Built-in active PFC function
- · Cooling by free air convection
- Fully isolated plastic case
- Fully encapsulated with IP67 level (Note.6)
- Class II power unit, no FG
- Class 2 power unit
- Built-in 3 in 1 dimming function (1~10Vdc or PWM signal or resistance)
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp / wet locations
- 3 years warranty





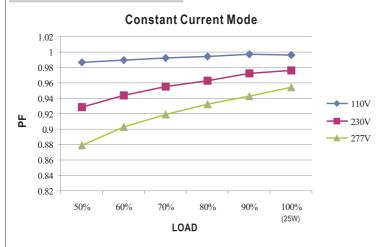
MODEL		LPF-25D-12	LPF-25D-15	LPF-25D-20	LPF-25D-24	LPF-25D-30	LPF-25D-36	LPF-25D-42	LPF-25D-48	LPF-25D-54					
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V					
ОИТРИТ	CONSTANT CURRENT REGION Note.4	6.6 ~12V	8.25 ~ 15V	11 ~ 20V	13.2 ~ 24V	16.5 ~ 30V	19.8 ~ 36V	23.1 ~ 42V	26.4 ~ 48V	29.7 ~ 54V					
	RATED CURRENT	2.1A	1.67A	1.25A	1.05A	0.84A	0.7A	0.6A	0.53A	0.47A					
	RATED POWER	25.2W	25.05W	25W	25.2W	25.2W	25.2W	25.2W	25.44W	25.38W					
	RIPPLE & NOISE (max.) Note.2		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%					
		1500ms, 80m)ms, 80ms / 23										
	HOLD UP TIME (Typ.)	16ms at full load 230VAC /115VAC													
	1717	90 ~ 305VAC 127 ~ 431VDC													
	FREQUENCY RANGE	90 ~ 305 VAC 127 ~ 43 TVDC 47 ~ 63Hz													
	POWER FACTOR (Typ.)	47 ~ 63HZ PF>0.97/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load (Please refer to "Power Factor Characteristic" curve)													
INPUT	EFFICIENCY (Typ.)	84%			1	T .	T T	1		т'					
INFOI	AC CURRENT	200 200 200 200 200 200 200 200 200 200													
	INRUSH CURRENT (Typ.)	0.4A / 115VAC													
	LEAKAGE CURRENT	COLD START 50A/230VAC <0.75mA / 240VAC													
	LEARAGE CORRENT														
PROTECTION	OVER CURRENT Note.4	95 ~ 108%													
		Protection type: Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed.													
	SHORT CIRCUIT						44 4014	40 5414	T=4 001/	50 001/					
	OVER VOLTAGE	15~18V 17.5~21V 23~27V 28~35V 34~40V 41~49V 46~54V 54~63V 59~66V													
		Protection type: Shut down and latch off o/p voltage, re-power on to recover													
	OVER TEMPERATURE	95°C±5°C (TSW1) Detect on U2													
	Protection type: Shut down o/p voltage, re-power on to recover														
	WORKING TEMP.	-35 ~ +70°C (Refer to "Derating Curve")													
	WORKING HUMIDITY	20 ~ 95% RH non-condensing													
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,	10 ~ 95% RH												
	TEMP. COEFFICIENT	±0.03%/°C (0	~ 50°C)												
	VIBRATION	10 ~ 500Hz, 5	iG 12min./1cyc	cle, period for	72min. each ale	ong X, Y, Z axe	S								
	SAFETY STANDARDS Note.6	UL8750, CSA C22.2 No. 250.0-08 (except for 42V,48V, 54V),EN61347-1, EN61347-2-13 independent, EN62384,J61347-1, J61347-2-13 approved, IP67 approved ;Design refer to UL60950-1, TUV EN60950-1													
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC													
EMC	ISOLATION RESISTANCE	I/P-O/P:100N	/ Ohms / 500V	/DC / 25°C/ 70	% RH										
LIVIC	EMC EMISSION					load) ; EN6100	0-3-3								
	EMC IMMUNITY							iteria A							
	MTBF	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547,light industry level(surge 2KV), criteria A 418.5Khrs min. MIL-HDBK-217F (25°C)													
OTHERS	DIMENSION	148*40*32mm (L*W*H)													
•	PACKING	0.36Kg; 40pcs/ 15.4Kg/1.02CUFT													
NOTE															
NOTE	Ripple & noise are measure Tolerance : includes set up Constant current operation reconfirm special electrical r Derating may be needed ur Suitable for indoor use or or Length of set up time is mea The power supply is consident complete installation, the fin	ly mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. and 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 55% ~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. utdoor use without direct sunlight explosure. Please avoid immerse in the water over 30 minutes. assured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. ered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the late equipment manufacturers must re-qualify EMC Directive on the complete installation again. s suggested, but is not suitable for using additional drivers.													





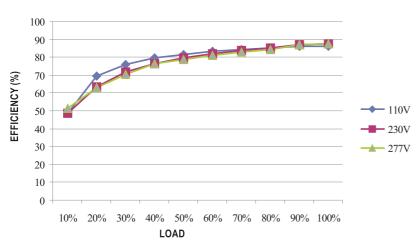


■ Power Factor Characteristic



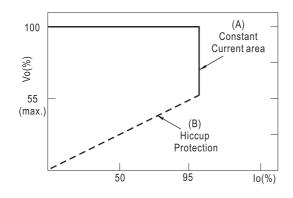
■ EFFICIENCY vs LOAD (48V Model)

LPF-25D series possess superior working efficiency that up to 86% can be reached in field applications.



■ DRIVING METHODS OF LED MODULE

This LED power supply is suggested to work in constant current mode area (CC) to drive the LEDs.



Typical LED power supply I-V curve



■ DIMMING OPERATION



- ※ Output constant current level can be adjusted through output cable by 1 ~ 10Vdc, 10V PWM signal or resistance between DIM+ and DIM−.
- * Reference resistance value for output current adjustment (Typical)

Resistance value	10ΚΩ	20ΚΩ	30ΚΩ	40ΚΩ	50ΚΩ	60ΚΩ	70ΚΩ	80ΚΩ	90ΚΩ	100ΚΩ	OPEN
Output current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

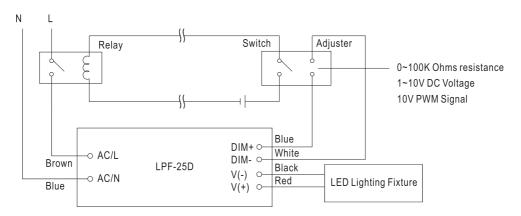
* 1 ~ 10V dimming function for output current adjustment (Typical)

Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Output current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

¾ 10V PWM signal for output current adjustment (Typical): Frequency range :100~3KHz

Duty value	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Output current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

Dimming connection diagram for turning the lighting fixture ON/OFF:



Using a switch and relay can turn ON/OFF the lighting fixture.

- 1.Output constant current level can be adjusted through output cable by connecting a resistor or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
- 2. The LED lighting fixture can be turned ON/OFF by the switch.