





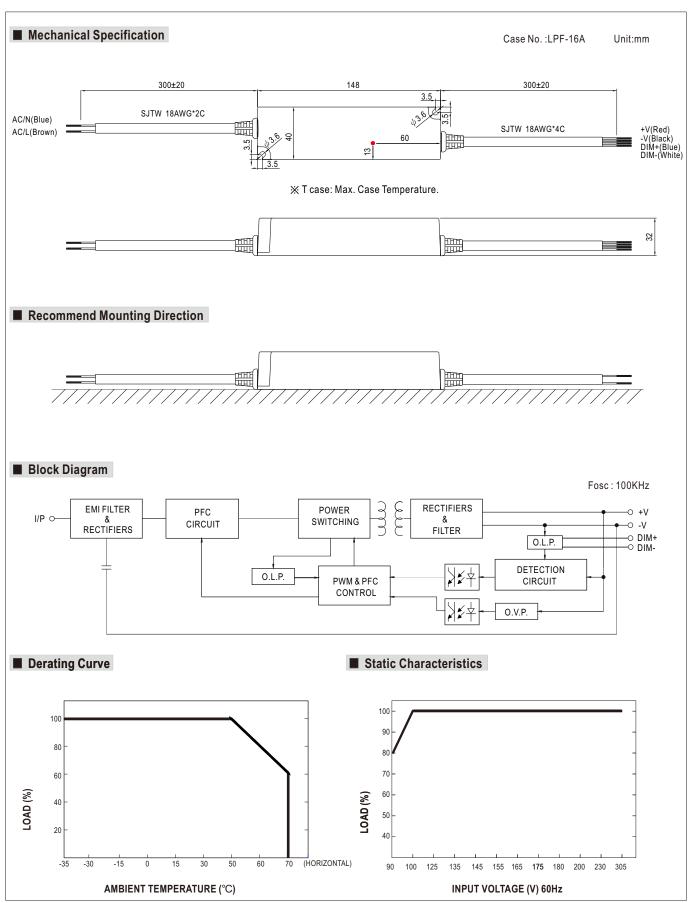
- Universal AC input / Full range (up to 305VAC)
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Built-in active PFC function
- Cooling by free air convection
- Fully isolated plastic case
- Fully encapsulated with IP67 level (Note.6)
- · Class II power unit, no FG
- Class 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
- 5 years warranty

1
TAIWAN EXCELLENCE 2012

connected to the mains.

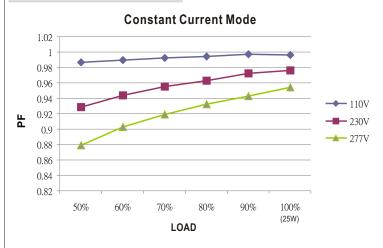
MODEL		LPF-25D-12	LPF-25D-15	LPF-25D-20	LPF-25D-24	LPF-25D-30	LPF-25D-36	LPF-25D-42	LPF-25D-48	LPF-25D-54			
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V			
	CONSTANT CURRENT REGION Note.4	6.6 ~12V	8.25 ~ 15V	11 ~ 20V	13.2 ~ 24V	16.5 ~ 30V	19.8 ~ 36V	23.1 ~ 42V	26.4 ~ 48V	29.7 ~ 54V			
	RATED CURRENT	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			
ОИТРИТ	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	1500ms, 80m	s / 115VAC at f	ull load 500r	ns, 80ms / 230	VAC							
	HOLD UP TIME (Typ.)	16ms at full lo	ad 230VAC	/115VAC									
	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)											
INPUT	EFFICIENCY (Typ.)	84%	84%	85%	85.5%	85.5%	85.5%	85.5%	86%	86%			
	AC CURRENT	0.4A / 115VAC											
	INRUSH CURRENT (Typ.)	COLD START 50A(twidth=200µs measured at 50% Ipeak) at 230VAC											
	LEAKAGE CURRENT	<0.75mA / 240VAC											
		95 ~ 108%											
PROTECTION	OVER CURRENT Note.4	Protection type: Constant current limiting, recovers automatically after fault condition is removed											
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.											
	OHORY OHOOT!	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											
	WORKING TEMP.	-35 ~ +70°C (Refer to "Derating Curve")											
	WORKING HUMIDITY		non-condensir	,									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,		·9									
LITTINONIILITI	TEMP. COEFFICIENT	±0.03%/°C (0											
	VIBRATION	,	,	ole period for	72min, each al	ong X, Y, Z axe							
	SAFETY STANDARDS Note.6	UL8750, CS/	A C22.2 No. 25	50.0-08,EN613	347-1, EN6134	17-2-13 indepe	ndent, EN623						
	WITHSTAND VOLTAGE	J61347-2-13 approved, IP67 approved ;Design refer to UL60950-1, TUV EN60950-1											
SAFETY &	ISOLATION RESISTANCE			/DC / 25°C/70	0/ DU								
EMC	EMC EMISSION			/DC / 25°C/ 70		load) ; EN6100	N 3 3						
	EMC IMMUNITY	· ·				industry level(s		itoria A					
	MTBF					illuusii y level(s	surge Ziv), Gi	ilelia A					
OTHERS				K-217F (25°C)									
OTHERS	DIMENSION	148*40*32mm (L*W*H) 0.36Kg; 40pcs/ 15.4Kg/1.02CUFT											
	PACKING												
NOTE	All parameters NOT special Ripple & noise are measure Tolerance: includes set up Constant current operation in reconfirm special electrical in Derating may be needed ur Suitable for indoor use or or Length of set up time is meal. The power supply is considict complete installation, the fin Direct connecting to LEDs is 10.To fulfill requirements of the	d at 20MHz o tolerance, line region is within equirements fuder low input utdoor use with asured at cold ered as a comal equipment resuggested, b	f bandwidth by regulation and 55% ~100% or some specification from the first start. Turn ponent that with manufacturers ut is not suitate.	vusing a 12" to do load regulation rated output which system designed to the system designed on the system of the	wisted pair-windon. onto Ditage. This is ign. static character e. Please avoic the power supplin combination of EMC Directive diditional drivers.	e terminated w the suitable op istics for more I immerse in th ply may lead to n with final equ we on the comp s.	ith a 0.1uf & 4 veration region details. ve water over 3 o increase of the ipment. Since olete installation	7uf parallel ca for LED relate 30 minutes. ne set up time. EMC performan n again.	ed applications	ected by the			





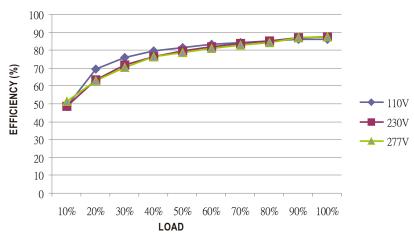


■ Power Factor Characteristic



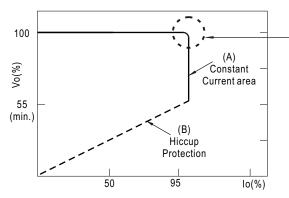
■ EFFICIENCY vs LOAD (48V Model)

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

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.



■ 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	Single driver	10ΚΩ	20ΚΩ	30ΚΩ	40ΚΩ	50ΚΩ	60ΚΩ	70ΚΩ	80ΚΩ	90ΚΩ	100ΚΩ	OPEN
	Multiple drivers (N=driver quantity for synchronized dimming operation)	10KΩ/N	20KΩ/N	30KΩ/N	40KΩ/N	50KΩ/N	60KΩ/N	70KΩ/N	80KΩ/N	90KΩ/N	100KΩ/N	
Percentage of rated current		10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

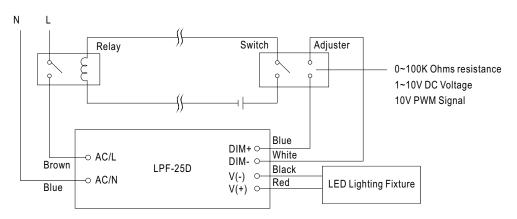
¾ 1 ~ 10V dimming function for output current adjustment (Typical)

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.