





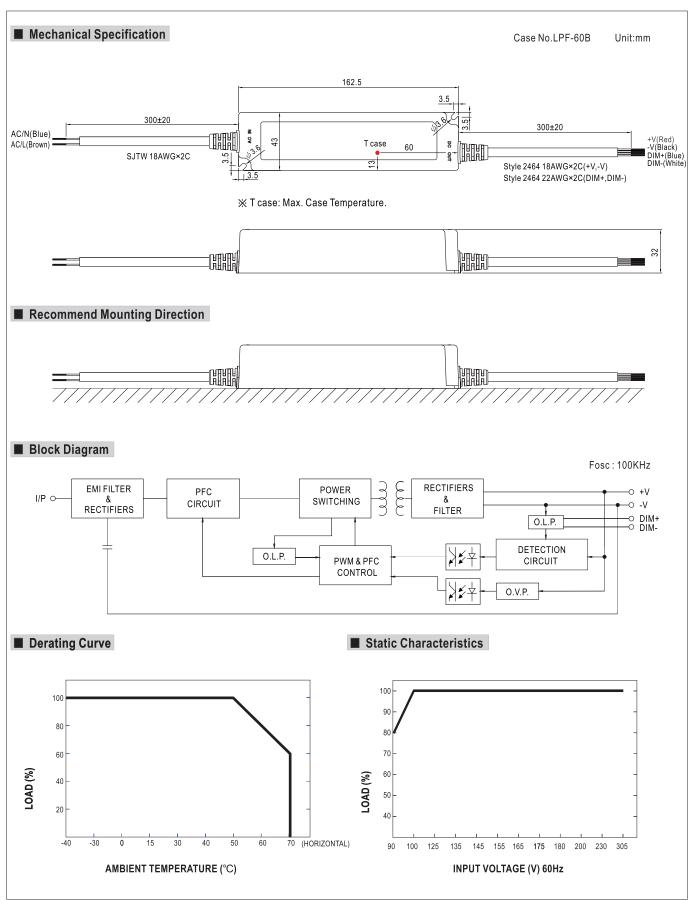
Features:

- Universal AC input / Full range (up to 305VAC)
- · Built-in active PFC function
- High efficiency up to 89%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- Fully isolated plastic case
- Fully encapsulated with IP67 level (Note.6)
- \bullet Class $\scriptstyle \rm II$ 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



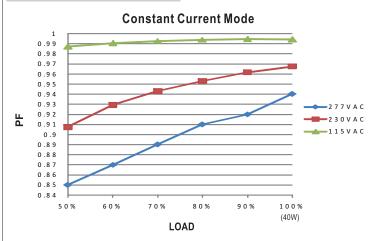
MODEL		LPF-40D-12	LPF-40D-15	LPF-40D-20	LPF-40D-24	LPF-40D-30	LPF-40D-36	LPF-40D-42	LPF-40D-48	LPF-40D-54				
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V				
ОИТРИТ	CONSTANT CURRENT REGION Note.4	7.2 ~12V	9 ~ 15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	25.2 ~ 42V	28.8 ~ 48V	32.4 ~ 54V				
	RATED 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	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%				
	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%				
		1000ms, 80m			ms, 80ms / 23		20.070	20.070	20.070	20.070				
	HOLD UP TIME (Typ.)	16ms/230VA		15VAC at full	,	0 1/10								
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	90 ~ 305VAC 127 ~ 431VDC												
		47 ~ 63Hz	127 43	IVDC										
	FREQUENCY RANGE		/A.C. DE> 0.0E/	2201/40 DE>0	00/077\/\0 -4	full land (Diana		F Ob		\				
INDUT	POWER FACTOR (Typ.)				I	1	I	er Factor Char	T .	T .				
INPUT	EFFICIENCY (Typ.)	84%	85%	86%	87%	88%	88%	88.5%	89%	89%				
	AC CURRENT (Typ.)	0.6A / 115VA			25A/277VAC									
	INRUSH CURRENT (Typ.)	COLD START												
	LEAKAGE CURRENT	<0.75mA / 24	<0.75mA/240VAC											
PROTECTION	OVER CURRENT Note.4	95 ~ 108%												
	TENT OF THE PARTY	Protection type : Constant current limiting, recovers automatically after fault condition is removed												
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.												
	OVED VOLTACE	15 ~ 17V	17.5 ~ 21V	23 ~ 27V	28 ~ 35V	34 ~ 40V	41 ~ 49V	46 ~ 54V	54 ~ 63V	59 ~ 66V				
	OVER VOLTAGE	Protection type : Shut down and latch off o/p voltage, re-power on to recover												
		90°C±10°C (RTH2)												
	OVER TEMPERATURE	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												
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,	10 ~ 95% RH	•										
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)												
	VIBRATION	,		le period for	72min_each ald	nna X V 7 ave	<u> </u>							
	VIBICATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL8750, CSA C22.2 No. 250.0-08(except for 48V, 54V), EN61347-1, EN61347-2-13 independent, IP67, J61347-1, J61347-2-13												
	SAFETY STANDARDS Note.6					_INO 1047-1, LIV	101041-2-10111	acpenaent, ir c	77, 00 10 47 - 1, 0	01041-2-10				
	WITHSTAND VOLTAGE	approved ; design refer to UL60950-1, TUV EN60950-1 I/P-O/P:3.75KVAC												
SAFETY &	ISOLATION RESISTANCE	I/P-O/P:3.75KVAC												
EMC	EMC EMISSION					od) - EN61000	122							
		Compliance to EN55015, EN61000-3-2 Class C (≧60% load); EN61000-3-3 Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024, light industry level(surge 2KV), criteria A												
	EMC IMMUNITY	·			-	5024, light indi	ustry level(surg	e ZKV), criteri	ан					
	MTBF	394.9Khrs mi		K-217F (25°C)										
OTHERS	DIMENSION	162.5*43*32mm (L*W*H)												
	PACKING	0.45Kg; 32pc:	s/15.4Kg/0.930	JUFT										
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 me The power supply is consider complete installation, the fin	ed at 20MHz o tolerance, line region is within requirements fonder low input utdoor use with asured at cold ered as a com al equipment r	f bandwidth by regulation and 60% ~100% or some specificating specificating the first start. Turn ponent that winanufacturers	r using a 12" to a load regulation rated output which system designed to the state of the state	wisted pair-wire on. oltage. This is gn. ttatic character . Please avoid the power supp in combinatior	e terminated w the suitable op istics for more immerse in th oly may lead to n with final equ we on the comp	peration region details. e water over 3 or increase of the inc	7uf parallel cap for LED relate 0 minutes. ne set up time. EMC performa	d applications,	·				





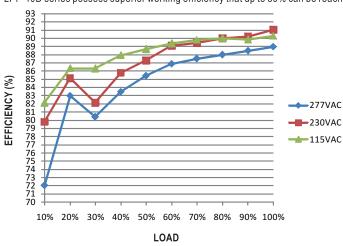


■ Power Factor Characteristic



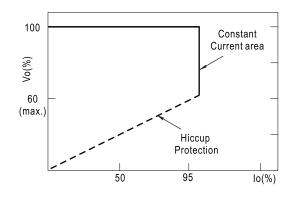
■ EFFICIENCY vs LOAD (48V Model)

LPF-40D series possess superior working efficiency that up to 89% 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



- ※ Built-in 3 in 1 dimming function, output constant current level can be adjusted through output cable by 1 ~ 10Vdc, 10V PWM signal or resistance between DIM+ and DIM-.
- ※ Please DO NOT connect "DIM-" to "-V".
- * 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%

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

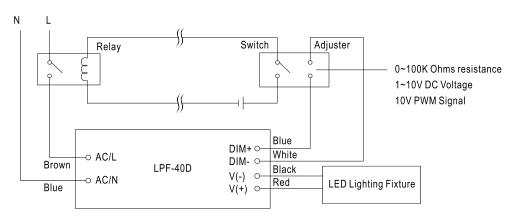
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Output current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

💥 10V PWM signal for output current adjustment (Typical): Frequency range :100Hz ~ 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%

**Using the built-in dimming function on LPF-40D can't turn the lighting fixture totally dark. Please refer to the connection method below to achieve 0% brightness of the lighting fixture connecting to the LED power supply unit.

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.