



Features:

- Universal AC input / Full range (up to 305VAC)
- · Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in active PFC function
- High efficiency up to 89%
- · Cooling by free air convection
- Fully isolated plastic case
- Epoxy encapsulated with IP67 level (Note.6)
- · Class 2 power unit
- Built-in 3 in 1 dimming function (1~10Vdc or PWM signal or resister)
- · Suitable for LED lighting and moving sign applications
- · Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp locations
- 3 years warranty

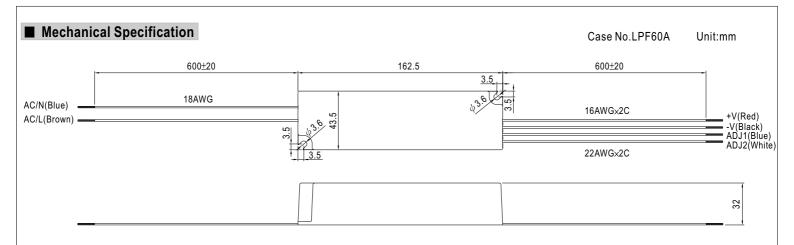
SPECIFICATION



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	40W	40W	40W	40W	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.8	1000ms, 80ms / 115VAC at full load												
	HOLD UP TIME (Typ.)	16ms at full lo	6ms at full load 230VAC /115VAC											
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC												
	FREQUENCY RANGE	47 ~ 63Hz												
	POWER FACTOR	PF ≥ 0.95/230	VAC PF	≥0.98/115VAC	AC at full load and rated output voltage PF ≥ 0.9 at 60 ~ 100% load									
INPUT	EFFICIENCY (Typ.)	84%	85%	86%	87%	88%	88%	89%	89%	89%				
	AC CURRENT	0.6A / 115VAC												
	INRUSH CURRENT (Typ.)	COLD START	COLD START 75A/230VAC											
	LEAKAGE CURRENT	<0.75mA / 240VAC												
	OVER CURRENT Note.4	95 ~ 108%												
		Protection type: Constant current limiting, recovers automatically after fault condition is removed												
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.												
PROTECTION		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.	-30 ~ +50°C @ full load ; +70°C @ 60% load (Refer to derating curve) ; -40°C can power on												
	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, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes												
	SAFETY STANDARDS Note.6	UL8750, EN6												
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC												
SAFETY &	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH												
EMC	EMI CONDUCTION & RADIATION	Compliance to	EN55015, Cl	ass B										
	HARMONIC CURRENT	Compliance to	o EN61000-3-2	2 Class C (≧6	0% load) ; EN6	1000-3-3								
	EMS IMMUNITY	•		•	ENV50204, EN		24, heavy indu	stry level, crite	ria A					
	MTBF	394.9Khrs mi		K-217F (25°C)										
OTHERS	DIMENSION	162.5*43.5*3	2mm (L*W*H)											
	PACKING		s/15.4Kg/0.560	CUFT										
NOTE	All parameters NOT special	0. 1			ust rotostiss-i	and OE°C of -	mbiont towns	oturo						

- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. Tolerance : includes set up tolerance, line regulation and load regulation.
- 4. Constant current operation region is within 60% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design.
- 5. Derating may be needed under low input voltages. Please check the static characteristics for more details.
- 6. Suitable for indoor use or outdoor use without direct sunlight explosure.
- 7. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.
- 8. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.





- \times Output constant current level can be adjusted through output cable by 1 ~ 10Vdc, PWM signal or resistor between ADJ1(+) and ADJ2(-).
- X Reference resistance value for output current adjustment (Typical)

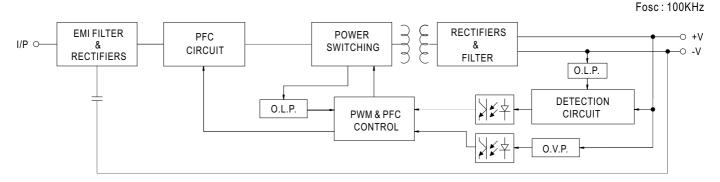
Resistance value	10K Ω	20K Ω	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80K Ω	90ΚΩ	100K Ω	OPEN
Output current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	100%~108%

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%	100%~108%

× 10V PWM signal for output current adjustment (Typical)

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%	100%~108%

■ Block Diagram



■ Derating Curve

■ Static Characteristics

