

LPF-60 series



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 90%
- Cooling by free air convection
- Fully isolated plastic case
- Epoxy encapsulated with IP67 level (Note.6)
- Class 2 power unit
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp locations
- 3 years warranty

MODEL		LPF-60-12	LPF-60-15	LPF-60-20	LPF-60-24	LPF-60-30	LPF-60-36	LPF-60-42	LPF-60-48	LPF-60-54
OUTPUT	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	5A	4A	3A	2.5A	2A	1.67A	1.43A	1.25A	1.12A
	RATED POWER	60W	60W	60W	60W	60W	60.12W	60.06W	60W	60.48W
	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 1000ms, 80ms / 230VAC								
	HOLD UP TIME (Typ.)	16ms at full load 230VAC /115VAC								
INPUT	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR	PF≧0.95/230	OVAC PF	≥0.98/115VA	C at full load ar	nd rated output	voltage F	PF≧0.9 at 60 ~	100% load	
	EFFICIENCY (Typ.)	86%	87%	88%	89%	90%	90%	90%	90%	90%
	AC CURRENT	0.8A / 115VAC 0.4A / 230VAC								
	INRUSH CURRENT (Typ.)	COLD START 75A/230VAC								
	LEAKAGE CURRENT	<0.75mA / 240VAC								
PROTECTION	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.								
	OVER VOLTAGE	15~17V	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								
		90°C ±10°C (RTH2)								
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, re-power on to recover								
ENVIRONMENT	WORKING TEMP.	-30 ~ +50 $^\circ$ C @ full load ; +70 $^\circ$ C @ 60% load (Refer to derating curve) ; -40 $^\circ$ C can power on								
	WORKING HUMIDITY	20 ~ 95% RH non-condensing								
	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 & EMC	SAFETY STANDARDS Note.6	UL8750, EN61347-1, EN61347-2-13 independent, IP67 approved ; Design refer to UL60950-1, TUV EN60950-1								
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC								
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH								
	EMI CONDUCTION & RADIATION	Compliance to EN55015, Class B								
	HARMONIC CURRENT	Compliance t	o EN61000-3-	2 Class C (≥ 6	60% load) ; EN	61000-3-3				
	EMS IMMUNITY					N61547, EN550	024, heavy indu	ustry level, crit	eria A	
OTHERS	MTBF	440.5Khrs mi	n. MIL-HDE	3 K-217F (25° ℃)		•	•		
	DIMENSION	162.5*42.5*3	2mm (L*W*H)		,					
	PACKING	0.45Kg; 32pc	s/15.4Kg/0.56	CUFT						
NOTE	 All parameters NOT special Ripple & noise are measure Tolerance : includes set up Constant current operation i reconfirm special electrical reconfirm special electrical reconfirm gmay be needed ur Derating may be needed ur Suitable for indoor use or or Length of set up time is me 	ly mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Id at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47 uf parallel capacitor. tolerance, line regulation and load regulation. region is within 60% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please requirements for some specific system design. rder low input voltages. Please check the static characteristics for more details. utdoor use without direct sunlight explosure. asured 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								

complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.



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