



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
- Fully encapsulated with IP67 level (Note.6)
- Class 2 power unit, no FG
- 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
ОИТРИТ	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.7	1000ms, 80m	ns / 115VAC at	full load 100	0ms, 80ms / 23	30VAC		-	1	-
	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	$PF \ge 0.95/230VAC$ $PF \ge 0.98/115VAC$ at full load and rated output voltage $PF \ge 0.9$ at $60 \sim 100\%$ load								
	EFFICIENCY (Typ.)	86%	87%	88%	89%	90%	90%	90%	90%	90%
	AC CURRENT	0.8A / 115VAC								
	INRUSH CURRENT (Typ.)	COLD START 75A/230VAC								
	LEAKAGE CURRENT	<0.75mA/240VAC								
PROTECTION		95~108%								
	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.								
	SHORT SHOOT	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									
ENVIRONMENT	WORKING TEMP.	-40 ~ +50°C @ full load ; +70°C @ 50% load (Refer to derating curve)								
	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								
		UL8750, EN61347-1, EN61347-2-13 independent, IP67 approved; Design refer to UL60950-1, TUV EN60950-1								
	WITHSTAND VOLTAGE	1/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 Class B								
	HARMONIC CURRENT	Compliance to EN61000-3-2 Class C (≥60% load) ; EN61000-3-3								
	EMS IMMUNITY	Compliance to EN61000-3-2 class & (\$\geq\$0.78 load), EN61547, EN55024, light industry level(surge 2KV), criteria A								
	MTBF	440.5Khrs min. MIL-HDBK-217F (25°C)								
OTHERS	DIMENSION	162.5*42.5*32mm (L*W*H)								
		0.44Kg; 32pcs/15.08Kg/0.56CUFT								
	PACKING 1. All parameters NOT special				nut rated load	and 25°C of a	mhiant tampa	raturo		
NOTE	Ripple & noise are measure Tolerance : includes set up	d at 20MHz o	of bandwidth b	y using a 12"	twisted pair-wi				apacitor.	
	4. Constant current operation r	region is within 60% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please								
	reconfirm special electrical r 5. Derating may be needed ur	der low input	voltages. Plea	se check the	static characte					
		putdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.								
	. 7. Lenum of set up time is mea	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								



