

LPF-40 series

40W Single Output Switching Power Supply

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
- 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-40-12	LPF-40-15	LPF-40-20	LPF-40-24	LPF-40-30	LPF-40-36	LPF-40-42	LPF-40-48	LPF-40-54
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	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 1200ms, 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	$PF \ge 0.95/230VAC$ $PF \ge 0.98/115VAC$ at full load and rated output voltage $PF \ge 0.9$ at 60 ~ 100% load								
	EFFICIENCY (Typ.)	84%	85%	86%	87%	88%	88%	89%	89%	89%
	AC CURRENT	0.6A/115VAC 0.3A/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.								
		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								
ENVIRONMENT	WORKING TEMP.	-30 ~ +50 $^\circ\!\mathbb{C}$ @ full load ; +70 $^\circ\!\mathbb{C}$ @ 60% load (Refer to derating curve) ; -40 $^\circ\!\mathbb{C}$ 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 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								
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 t	o EN61000-3-2	2 Class C (\geq 6	0% load) ; EN	61000-3-3				
	EMS IMMUNITY	Compliance t	o EN61000-4-2	2,3,4,5,6,8,11;	ENV50204, EN	161547, EN550	24, heavy indu	ustry level, crit	eria A	
OTHERS	MTBF	438.8Khrs mi	n. MIL-HDB	K-217F (25° C)						
	DIMENSION	162.5*42.5*3	2mm (L*W*H)							
	PACKING	0.45Kg; 32pc	s/15.4Kg/0.560	CUFT						
NOTE	 All parameters NOT special Ripple & noise are measure Tolerance : includes set up Constant current operation reconfirm special electrical Derating may be needed ur Suitable for indoor use or o Length of set up time is me The power supply is consid 	ed at 20MHz o tolerance, line region is withir requirements f nder low input utdoor use with asured at cold	f bandwidth by regulation and 60% ~100% or some speci voltages. Plea hout direct sur first start. Tur	y using a 12" t d load regulation rated output w fic system desi se check the s alight explosure ning ON/OFF	wisted pair-wir on. oltage. This is ign. static character o. the power sup	e terminated w the suitable of ristics for more ply may lead t	vith a 0.1uf & 4 peration region details. o increase of f	47uf parallel ca n for LED relat the set up time	ed applications	

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

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