

LPF-16 series

16W Single Output Switching Power Supply



Features:

- . Universal AC input / Full range (up to 305VAC)
- · Protections: Short circuit / Over current / Over voltage / Over temperature
- · Built-in active PFC function
- . Cooling by free air convection
- . Fully isolated plastic case with IP30 level (Note.8)
- · Class II power unit, no FG
- · Class 2 power unit
- . IP67(optional, model NO.: LPF-16-[2]P)
- . Suitable for LED lighting and moving sign applications
- . Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp locations(wet location for LPF-16-12 P)























SPECIFICATION

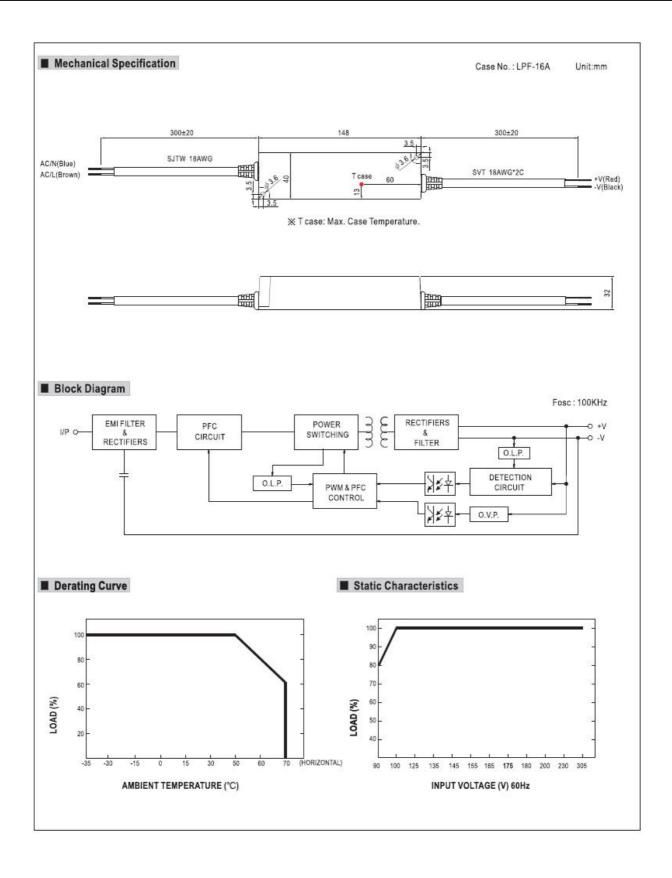
DDEL	764-7170	764-7189	764-7182	764-7186	764-7195	764-7198	764-7192	764-7202	764-7205
DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V
CONSTANT CURRENT REGION Note 4	1.00	8.25 ~ 15V	11 ~ 20V	13.2 ~ 24V	16.5 ~ 30V	19.8 ~ 36V	23.1 ~ 42V	26.4 ~ 48V	29.7 ~ 54
RATED CURRENT	1.34A	1.07A	0.8A	0.67A	0.54A	0.45A	0.39A	0.34A	0.3A
RATED POWER	16.08W	16.05W	16W	16.08W	16.2W	16.2W	16.38W	16.32W	16.2W
RIPPI F & NOISE (max) Note 2		150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-r
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%
	1500ms, 80ms / 115VAC at full load 1500ms, 80ms / 230VAC								1-01010
HOLD UP TIME (Typ.)	16ms at full load 230VAC /115VAC								
VOLTAGE RANGE Note,5	90 ~ 305VAC 127 ~ 431VDC								
FREQUENCY RANGE	47 ~ 63Hz								
POWER FACTOR (Typ.)	PF>0.97/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load (Please refer to "Power Factor Characteristic" curve)								
PUT EFFICIENCY (Typ.)	84%	84%	86%	86%	86%	86%	86%	86%	86%
AC CURRENT	0.4A / 115VAC								
INRUSH CURRENT (Typ.)	COLD START 50A/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	-	e, recovers aut				Tuun vonanion	10101110100		
OVER VOLTAGE	15 ~ 18V	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								
OVER TEMPERATURE	100°C±5°C(TSW1) Detect on U2								
	Protection type: Shut down o/p voltage, re-power on to recover								
WORKING TEMP.	-35 ~ +70°C (Refer to "Derating Curve")								
WORKING HUMIDITY	20 ~ 95% RH non-condensing								
IRONMENT STORAGE TEMP., HUMIDITY	-40 ~ +80°C. 10 ~ 95% RH								
TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)								
VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes								
SAFETY STANDARDS	UL8750, CSA C22.2 No. 250.0-08 (except for 42V,48V, 54V),EN61347-1, EN61347-2-13 independent,EN62384 approved, IP67 (optional); Design refer to UL60950-1, TUV EN60950-1								
FETY & WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC								
ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH								
EMC EMISSION	Compliance to EN55015; EN61000-3-2 Class C (≥50% load); EN61000-3-3								
EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547,light industry level(surge 2KV), criteria A								
Control of the Contro	-				,	9			
	148*40*32mm (L*W*H)								
MTBF DIMENSION PACKING		473.3Khrs n 148*40*32m 0.21Kg; 40p s NOT specially mentioned	473.3Khrs min. MIL-HDI 148*40*32mm (L*W*H) 0.21Kg; 40pcs/9.4Kg/1.02C	473.3Khrs min. MIL-HDBK-217F (25°C 148*40*32mm (L*W*H) 0.21Kg; 40pcs/9.4Kg/1.02CUFT s NOT specially mentioned are measured at 230VAC in	473.3Khrs min. MIL-HDBK-217F (25°C) 148*40*32mm (L*W*H) 0.21Kg; 40pcs/9.4Kg/1.02CUFT s NOT specially mentioned are measured at 230VAC input, rated load	473.3Khrs min. MIL-HDBK-217F (25°C) 148*40*32mm (L*W*H) 0.21Kg; 40pcs/9.4Kg/1.02CUFT s NOT specially mentioned are measured at 230VAC input, rated load and 25°C of a	473.3Khrs min. MIL-HDBK-217F (25°C) 148*40*32mm (L*W*H) 0.21Kg; 40pcs/9.4Kg/1.02CUFT s NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient tempe	473.3Khrs min. MIL-HDBK-217F (25°C) 148*40*32mm (L*W*H) 0.21Kg; 40pcs/9.4Kg/1.02CUFT s NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.	473.3Khrs min. MIL-HDBK-217F (25°C) 148*40*32mm (L*W*H) 0.21Kg; 40pcs/9.4Kg/1.02CUFT

All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
 Ripple & noise are measured at 20MHz of bandwidth by using a 12° twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
 Tolerance: includes set up tolerance, line regulation and load regulation.
 Constant current operation region is within 50% ~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.
 Derating may be needed under low input voltages. Please check the static characteristics for more details.
 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.
 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.
 Suitable for indoor use.



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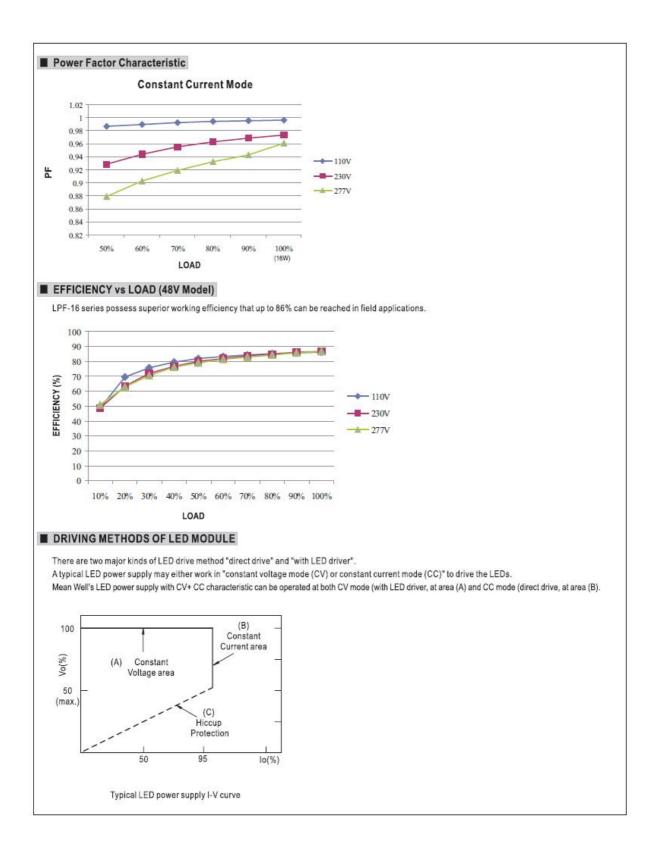


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