

30W Single Output LED Power Supply

PLP-30 series



Features :

- Universal AC input / Full range
- Protections: Short circuit / Over current / Over voltage
- Built-in active PFC function
- Cooling by free air convection
- Output current level adjustable
- 100% full load burn-in test
- High reliability
- Suitable for built-in applications of LED lighting
- 2 years warranty

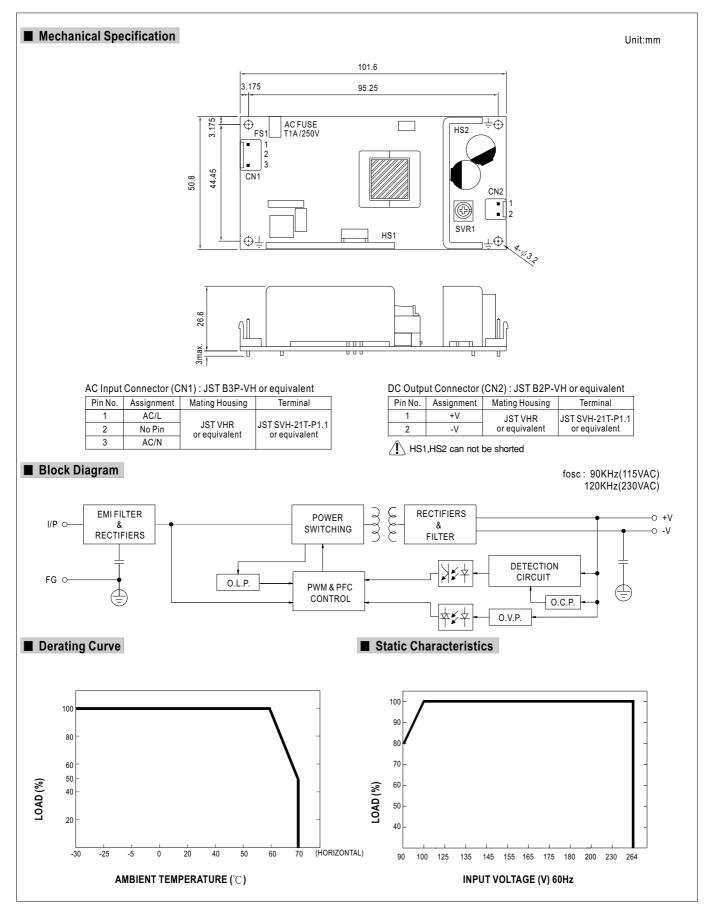


SPECIFICATION

DC VOLTAGE CONSTANT CURRENT OPERATION VOLTAGE Note.5	12V	24V	
		24 V	48V
	9 ~ 12V	18 ~ 24V	36 ~ 48V
RATED CURRENT	2.5A	1.3A	0.63A
CURRENT RANGE	0~2.5A	0~1.3A	0~0.63A
RATED POWER	30W	31.2W	30.24W
RIPPLE & NOISE (max.) Note.2	2Vp-p	2.4Vp-p	4.8Vp-p
CURRENT ADJ. RANGE	1.875 ~ 2.5A	0.975 ~ 1.3A	0.475 ~ 0.63A
VOLTAGE TOLERANCE Note.3	±10% ±3.0% ±5.0%		
LINE REGULATION			
LOAD REGULATION			
SETUP TIME	1200ms / 230VAC 2200ms / 115VAC at full load		
VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC		
FREQUENCY RANGE	47 ~ 63Hz		
POWER FACTOR (Typ.)	PF>0.9 at 75 ~ 100% load , 115VAC / 230VAC		
EFFICIENCY (Typ.)	83%	85.5%	86.5%
AC CURRENT (Typ.)	0.4A/115VAC 0.2A/230VAC 40A/230VAC		
INRUSH CURRENT (max.)			
LEAKAGE CURRENT	<0.75mA/240VAC		
OVER CURRENT Note.5	100~110%		
	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	15~18V	28~33V	57 ~ 63V
	Protection type : Shut down o/p vo	oltage, re-power on to recover	·
WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")		
WORKING HUMIDITY	20 ~ 95% RH non-condensing -40 ~ +80°C, 10 ~ 95% RH ±0.03%/°C (0 ~ 50°C)		
STORAGE TEMP., HUMIDITY			
TEMP. COEFFICIENT			
VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes		
SAFETY STANDARDS	UL8750, CAN/CSA C22.2 No. 250.0-08(except for 48V),TUV EN61347-1, EN61347-2-13 approved ; design refer to UL60950-1		
WITHSTAND VOLTAGE	I/P-0/P:3.75KVAC I/P-FG:1.88KVAC 0/P-FG:0.5KVAC		
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH		
EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C(≧75% load); EN61000-3-3		
EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024,EN61547, light industry level, criteria A		
MTBF	580.8Khrs min. MIL-HDBK-217F (25°C)		
DIMENSION	101.6*50.8*26.6mm (L*W*H)		
PACKING	0.12Kg; 108pcs/13Kg/0.89CUFT		
 Ripple & noise are measure Tolerance : includes set up Derating may be needed ur Constant current operation reconfirm special electrical r The power supply is consid complete installation, the fin Heat Sink HS1,HS2 can no 	ed at 20MHz of bandwidth by usir tolerance, line regulation and load ider low input voltage. Please che region is within 75% ~100% rated requirements for some specific sy ered as a component that will be al equipment manufacturers mus t be shorted.	ng a 12" twisted pair-wire terminated d regulation. sek the static characteristics for more d output voltage. This is the suitable stem design. operated in combination with final en t re-qualify EMC Directive on the con	with a 0.1uf & 47uf parallel capacitor. e details. operation region for LED related applications, but please quipment. Since EMC performance will be affected by th
	CURRENT ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION SETUP TIME VOLTAGE RANGE Note.4 FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (max.) LEAKAGE CURRENT OVER CURRENT Note.5 SHORT CIRCUIT OVER VOLTAGE WORKING TEMP. WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Derating may be needed up 5. Constant current operation reconfirm special electrical I 6. The power supply is consid complete installation, the fir 7. Heat Sink HS1,HS2 can no	CURRENT ADJ. RANGE 1.875 ~ 2.5A VOLTAGE TOLERANCE Note.3 ±10% LINE REGULATION ±3.0% LOAD REGULATION ±5.0% SETUP TIME 1200ms / 230VAC VOLTAGE RANGE Note.4 90 ~ 264VAC 127 ~ 370VDC FREQUENCY RANGE 47 ~ 63Hz POWER FACTOR (Typ.) PF>0.9 at 75 ~ 100% load , 115VA EFFICIENCY (Typ.) 83% AC CURRENT (Typ.) 0.4A/115VAC OVER CURRENT (max.) 40A/230VAC LEAKAGE CURRENT <0.75mA / 240VAC	CURRENT ADJ. RANCE 1.875 ~ 2.5A 0.975 ~ 1.3A VOLTAGE TOLERANCE Note.3 ±10% LINE REGULATION ±3.0% LOAD REGULATION ±3.0% CURRENT MORE 1200ms / 230VAC 2200ms / 115VAC at full load VOLTAGE RANGE Note.4 90 ~ 264VAC 127 ~ 370VDC FREQUENCY RANGE 47 ~ 63Hz POWER FACTOR (Typ.) 83% POWER FACTOR (Typ.) 0.4A/115VAC 0.2A/230VAC 200VAC INRUSH CURRENT (Typ.) 0.4A/115VAC 0.2A/230VAC EFFICIENCY (Typ.) RAKAGE CURRENT <0.75mA / 240VAC

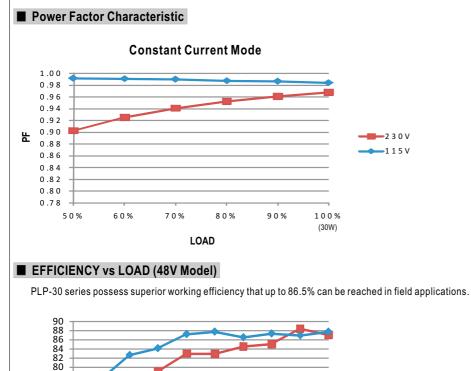


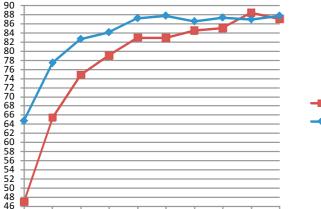
PLP-30 series





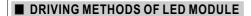
EFFICIENCY (%)





10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

230V



This LED power supply is suggested to work in constant current mode area (CC) to drive the LEDs.

