



30W Single Output LED Power Supply

PLP-30 series



Features :

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Built-in active PFC function
- Cooling by free air convection
- No minimum load requirement
- 100% full load burn-in test
- High reliability
- Suitable for LED lighting and moving sign applications
- 2 years warranty

SPECIFICATION

SELV
EQUIVALENT (except for 48V)



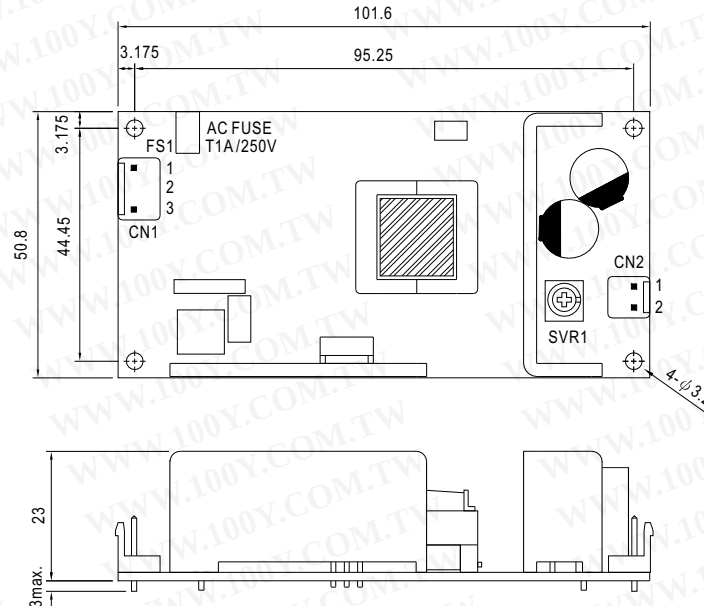
MODEL		PLP-30-12	PLP-30-24	PLP-30-48
OUTPUT	DC VOLTAGE	12V	24V	48V
	LED OPERATION VOLTAGE Note.5	9 ~ 12V	18 ~ 24V	36 ~ 48V
	RATED CURRENT	2.5A	1.3A	0.63A
	CURRENT RANGE	0 ~ 2.5A	0 ~ 1.3A	0 ~ 0.63A
	RATED POWER	30W	31.2W	30.24W
	RIPPLE & NOISE (max.) Note.2	2Vp-p	2.4Vp-p	4.8Vp-p
	CURRENT ADJ. RANGE	1.875 ~ 2.5A	0.975 ~ 1.3A	0.475 ~ 0.63A
	VOLTAGE TOLERANCE Note.3	±10%		
	LINE REGULATION	±3.0%		
	LOAD REGULATION	±5.0%		
SETUP TIME	1000ms / 230VAC 2000ms / 115VAC at full load			
INPUT	VOLTAGE RANGE	90 ~ 264VAC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR	PF>0.9 at 75 ~ 100% load , 115VAC / 230VAC		
	EFFICIENCY(Typ.)	83%	85.5%	86.5%
	AC CURRENT	0.4A/115VAC 0.2A/230VAC		
	INRUSH CURRENT(max.)	40A/230VAC		
	LEAKAGE CURRENT	<0.75mA / 240VAC		
PROTECTION	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 voltage, re-power on to recover		
ENVIRONMENT	WORKING TEMP.	-30 ~ +70℃ (Refer to output load derating curve)		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH		
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)		
	VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes		
SAFETY & EMC	SAFETY STANDARDS	TUV EN61347-1, EN61347-2-13 approved, design refer to UL60950-1		
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC		
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG::100M Ohms / 500VDC / 25℃ / 70% RH		
	EMI CONDUCTION & RADIATION	Compliance to EN55015 Class B		
	HARMONIC CURRENT	Compliance to EN61000-3-2 Class C (≥ 25W); EN61000-3-3		
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN61547, light industry level, criteria A		
OTHERS	MTBF	580.8Khrs min. MIL-HDBK-217F (25℃)		
	DIMENSION	101.6*50.8*23mm (L*W*H)		
	PACKING	0.11Kg; 96pcs/11.6Kg/0.89CUFT		
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor, direct connecting to LED's is not suggested for models with CURRENT "RIPPLE & NOISE" > ±10% and using additional drivers is highly recommended. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Derating may be needed under low input voltage. Please check the derating curve for more details. 5. Constant current operation region is within 75% ~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.			

勝特力材料 886-3-5753170
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Mechanical Specification

Unit:mm



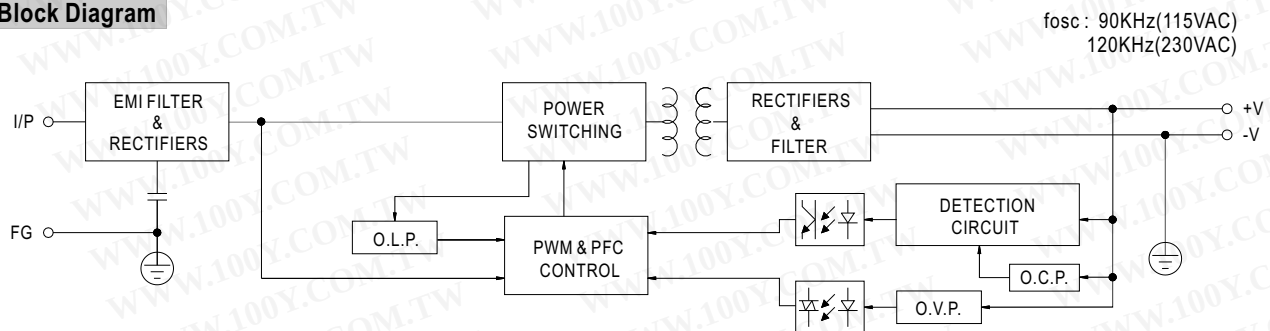
AC Input Connector (CN1) : JST B3P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	AC/L	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2	No Pin		
3	AC/N		

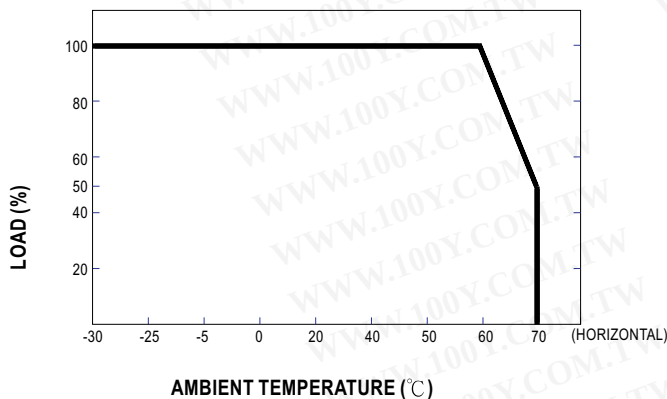
DC Output Connector (CN2) : JST B2P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	+V	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2	-V		

Block Diagram



Derating Curve



Static Characteristics

