



Features:

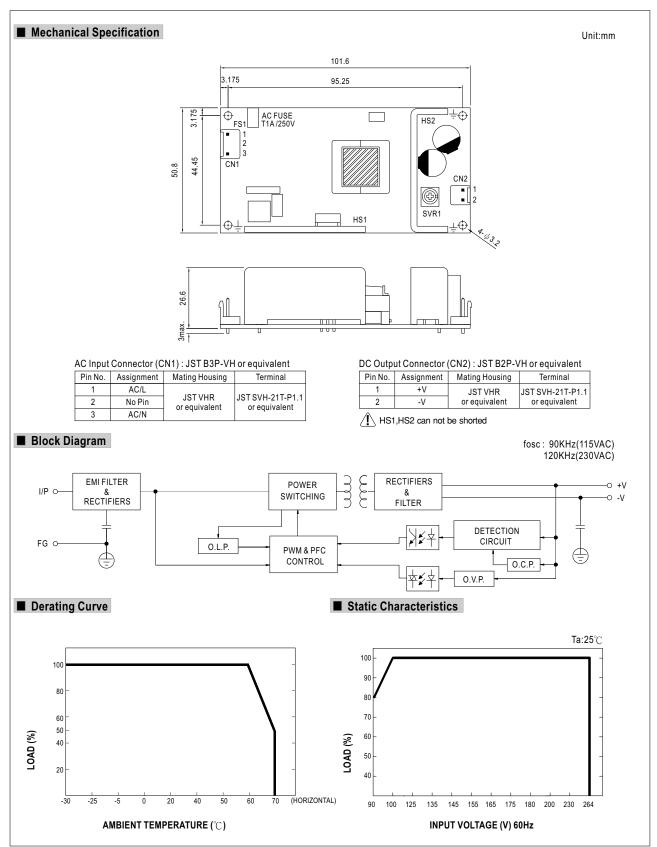
- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- · Built-in active PFC function
- Cooling by free air convection
- Output current level adjustab
- 100% full load burn-in test
- High reliability
- Suitable for built-in applications of LED lighting
- 2 years warranty

SPECIFICATION



MODEL		PLP-30-12	PLP-30-24	PLP-30-48	
	DC VOLTAGE	12V	24V	48V	
ОИТРИТ	CONSTANT CURRENT 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	1200ms / 230VAC 2200ms / 115VAC at full load			
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC			
	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			
	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°C (Refer to output load 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, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes			
	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			
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH			
EMC	EMI CONDUCTION & RADIATION	Compliance to EN55015			
	HARMONIC CURRENT	Compliance to EN61000-3-2 Class C(≥75% load); 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°ℂ)			
	DIMENSION	101.6*50.8*26.6mm (L*W*H)			
	PACKING	0.12Kg; 108pcs/13Kg/0.89CUFT			
NOTE	Ripple & noise are measure to LED's is not suggested for 3. Tolerance: includes set up 4. Derating may be needed ur 5. Constant current operation reconfirm special electrical 6. The power supply is considered.	,			
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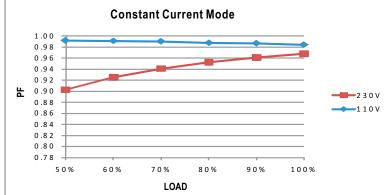






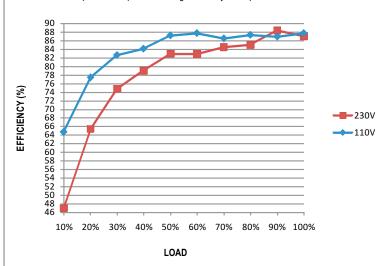
■ Power Factor Characteristic

Power factor will be higher than 0.9 when output loading is 75% or higher.



■ EFFICIENCY vs LOAD (48V Model)

PLP-30 series possess superior working efficiency that up to 86.5% can be reached in field applications.

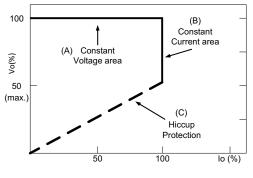


■ DRIVING METHODS OF LED MODULE

There are two major kinds of LED drive method "direct drive" and "with LED driver".

A typical LED power supply may either work in "constant voltage mode (CV) or constant current mode (CC)" to drive the LEDs.

Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode [with LED driver, at area (A)] and CC mode [direct drive, at area (B)].



Typical LED power supply I-V curve