



Features:

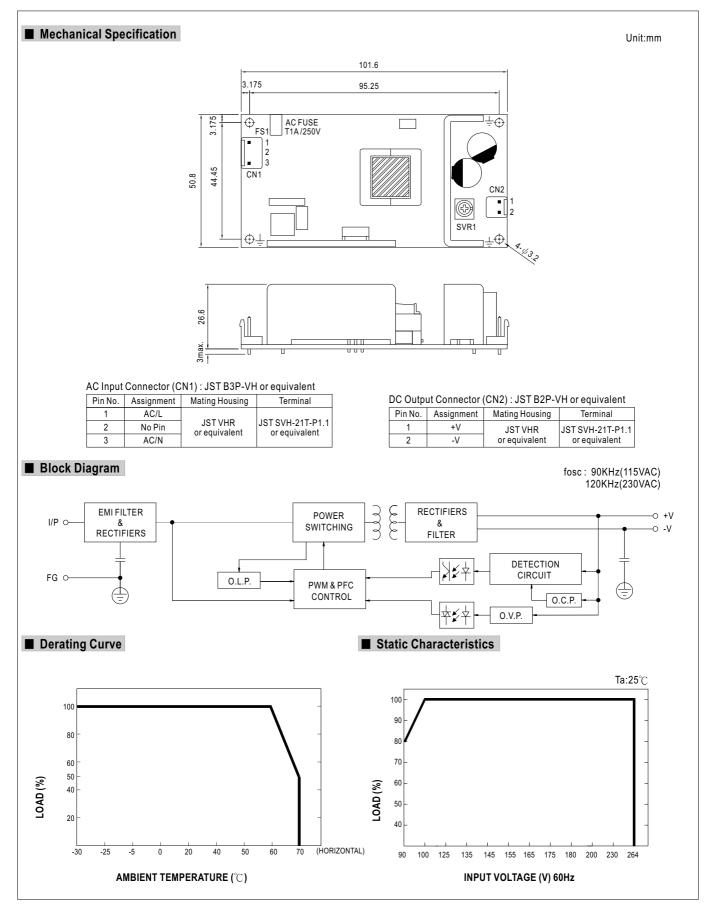
- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Built-in active PFC function
- Cooling by free air convection
- Output current level adjustab
- 100% full load burn-in test
- High reliability
- Suitable for built-in applications of LED lighting
- 2 years warranty

SPECIFICATION



MODEL		PLP-30-12	PLP-30-24	PLP-30-48	
ОИТРИТ	DC VOLTAGE	12V	24V	48V	
	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	1000ms / 230VAC 2000ms / 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 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°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 & 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°C / 70% RH			
	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.	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. de at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor, direct connecting for models with "RIPPLE & NOISE" > ±10% and using additional drivers is highly recommended. to tolerance, line regulation and load regulation. Inder low input voltage. Please check the static characteristics for more details. region is within 75% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please requirements for some specific system design. Deterd as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the load equipment manufacturers must re-qualify EMC Directive on the complete installation again.			
	John pioto in Stallation, tile III	File Name:PLP-30-SPEC 2010-09-06			



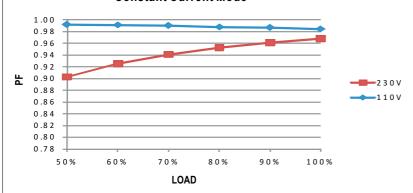




■ Power Factor Characteristic

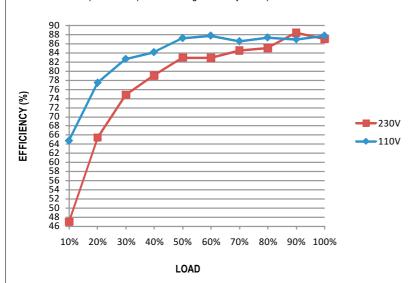
Power factor will be higher than 0.9 when output loading is 75% or higher.

Constant Current Mode



■ EFFICIENCY vs LOAD (48V Model)

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

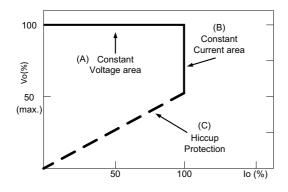


■ DRIVING METHODS OF LED MODULE

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