



Features:

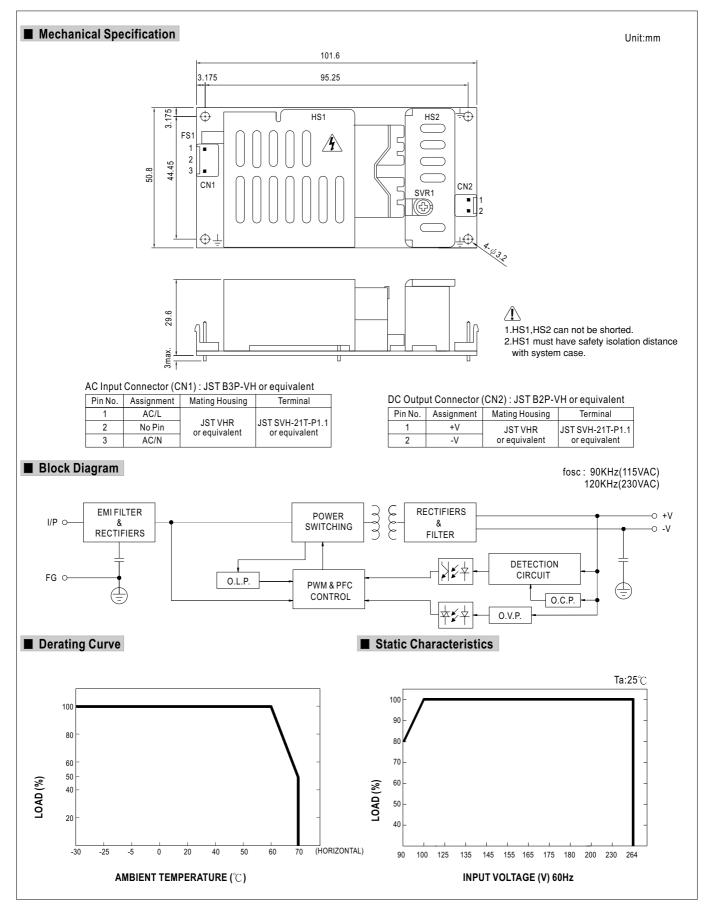
- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Built-in active PFC function
- Cooling by free air convection
- Output current level adjustable
- 100% full load burn-in test
- High reliability
- Suitable for built-in applications of LED lighting
- 2 years warranty

SPECIFICATION



MODEL		PLP-45-12	PLP-45-24	PLP-45-48
ОИТРИТ	DC VOLTAGE	12V	24V	48V
	CONSTANT CURRENT OPERATION VOLTAGE Note.5	9 ~ 12V	18 ~ 24V	36 ~ 48V
	RATED CURRENT	3.8A	1.9A	0.95A
	CURRENT RANGE	0 ~ 3.8A	0 ~ 1.9A	0 ~ 0.95A
	RATED POWER	45.6W	45.6W	45.6W
	RIPPLE & NOISE (max.) Note.2	4.2Vp-p	3.8Vp-p	4.8Vp-p
	CURRENT ADJ. RANGE	2.85 ~ 3.8A	1.425 ~ 1.9A	0.715 ~ 0.95A
	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.)	86%	89%	89%
	AC CURRENT	0.6A/115VAC		
	INRUSH CURRENT(max.)	42A/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	Protection type: Hiccup mode, recovers automatically after fault condition is removed		
	SHORT SHOOT	15 ~ 18V	28 ~ 35V	57 ~ 63V
	OVER VOLTAGE	Protection type : Shut down o/p voltage, re		
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			
EMC	HARMONIC CURRENT	Compliance to EN33013 Compliance to EN61000-3-2 Class C(≧75% load); EN61000-3-3		
	EMS IMMUNITY	Compliance to EN61000-3-2 class C(≥ 73% load), EN61000-3-3 Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024,EN61547, light industry level, criteria A		
	MTBF	586.5Khrs min. MIL-HDBK-217F (25°C)		
OTHERS)	
	DIMENSION	101.6*50.8*29.6mm (L*W*H)		
	PACKING	0.16Kg; 96pcs/16.4Kg/0.89CUFT	unut roted lead and 25°C of ambient to area	roturo
NOTE	Ripple & noise are measure to LED's is not suggested for the	and at 20MHz of bandwidth by using a 12" or models with "RIPPLE & NOISE" > ±10% tolerance, line regulation and load regulation der low input voltage. Please check the stregion is within 75% ~100% rated output verguirements for some specific system der to be shorted. The shorted is a component that will be operated as a component that will be operated.	static characteristics for more details. voltage. This is the suitable operation region	47uf parallel capacitor, direct connecting ommended. In for LED related applications, but please EMC performance will be affected by the
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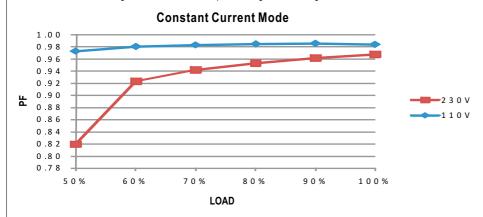






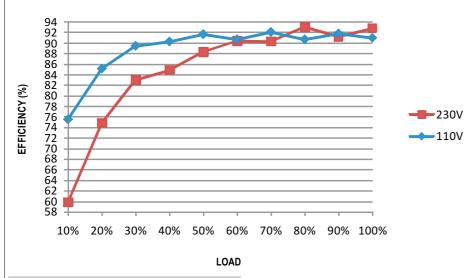
■ Power Factor Characteristic

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



■ EFFICIENCY vs LOAD (48V Model)

PLP-45 series possess superior working efficiency that up to 89% can be reached in field applications.

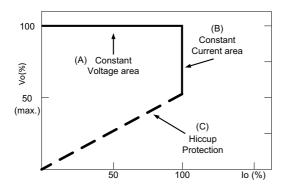


■ DRIVING METHODS OF LED MODULE

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