



Features:

Universal AC input / Full range

Protections: Short circuit / Over current / Over voltage

Built-in active PFC function Cooling by free air convection

Class 2 power unit

Output current level adjustable

100% full load burn-in test

High reliability

Suitable for built-in applications of LED lighting

2 years warranty









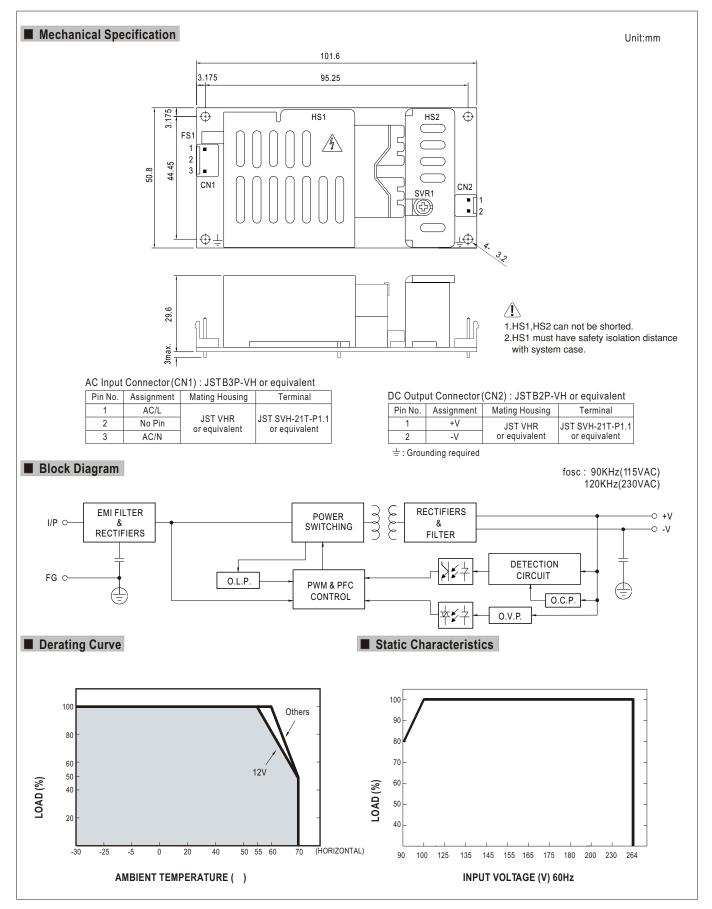


MODEL	<u> </u>	PLP-60-12	PLP-60-24	PLP-60-48	
	DC VOLTAGE	12V	24V	48V	
ОИТРИТ	CONSTANT CURRENT REGION Note.5		18 ~ 24V	36 ~ 48V	
	RATED CURRENT	5A	2.5A	1.3A	
	CURRENT RANGE	0 ~ 5A	0 ~ 2.5A	0 ~ 1.3A	
	RATED POWER	60W	60W	62.4W	
	RIPPLE & NOISE (max.) Note.2		4.5Vp-p	4.8Vp-p	
	CURRENT ADJ. RANGE	3.75 ~ 5A	1.875 ~ 2.5A	0.975 ~ 1.3A	
	VOLTAGE TOLERANCE Note.3				
	LINE REGULATION	±3.0%			
	LOAD REGULATION	±5.0%			
	SETUP TIME	500ms / 230VAC 1200ms / 115VAC at full load			
INPUT		90 ~ 264VAC 127~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	-	PF 0.9 at 75 ~ 100% load,115VAC/230VAC			
	POWER FACTOR (Typ.) EFFICIENCY (Typ.)	84%	88%	89%	
	AC CURRENT (Typ.)	0.8A/115VAC 0.4A/230VAC	00 /0	0376	
	INRUSH CURRENT (max.)	COLD START 35A(twidth=55s s measured at 50% Ipeak) at 230VAC			
	LEAKAGE CURRENT	COLD START 30A(windin-3th is fileasured at 30% ipeak) at 230VAC			
PROTECTION	OVER CURRENT Note.5	100 ~ 110%			
		Protection type: Constant current limiting, recovers automatically after fault condition is removed			
	CHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed			
	SHOKT CIRCUIT	15 ~ 18V	28 ~ 35V	57 ~ 63V	
	OVER VOLTAGE			37 * 65 V	
	WORKING TEMP	Protection type: Shut down o/p voltage, re-power on to recover -30 ~ +70 (Refer to "Derating Curve")			
ENVIRONMENT	WORKING TEMP.	20 ~ 95% RH non-condensing			
	WORKING HUMIDITY				
	STORAGE TEMP., HUMIDITY	-40 ~ +80 , 10 ~ 95% RH ± 0.03%/ (0 ~ 50)			
	TEMP. COEFFICIENT				
	VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes			
SAFETY & EMC	SAFETY STANDARDS	UL8750, TUV EN61347-1, EN61347-2-13, CSA C22.2 No. 250.0-08(except for 48V) approved; design refer to UL60950-1			
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25			
	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, criteriaA			
OTHERS	MTBF	583.3K hrs min. MIL-HDBK-217F (25)			
	DIMENSION	101.6*50.8*29.6mm (L*W*H)			
	PACKING	0.16Kg; 96pcs/16.4Kg/0.89CUFT			
IOTE	Ripple & noise are measure Tolerance : includes set up Derating may be needed ur Please refer to "DRIVING N Heat sink HS1,HS2 can not	ally mentioned are measured at 230VAC input, rated load and 25 of ambient temperature. ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. nder low input voltage. Please check the static characteristics for more details. METHODS OF LED MODULE". to be shorted. safety isolation distance with system case.			

- 8. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.
- 9. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.

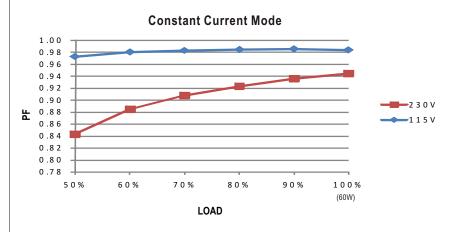
 10. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.





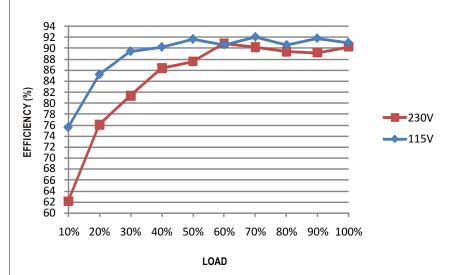


■ Power Factor Characteristic



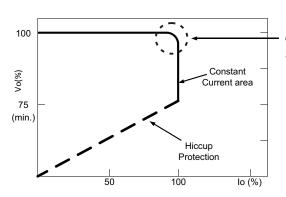
■ EFFICIENCY vs LOAD (48V Model)

PLP-60 series possess superior working efficiency that up to 89% can be reached in field applications.



■ DRIVING METHODS OF LED MODULE

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



Typical LED power supply I-V curve

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.