



■ 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











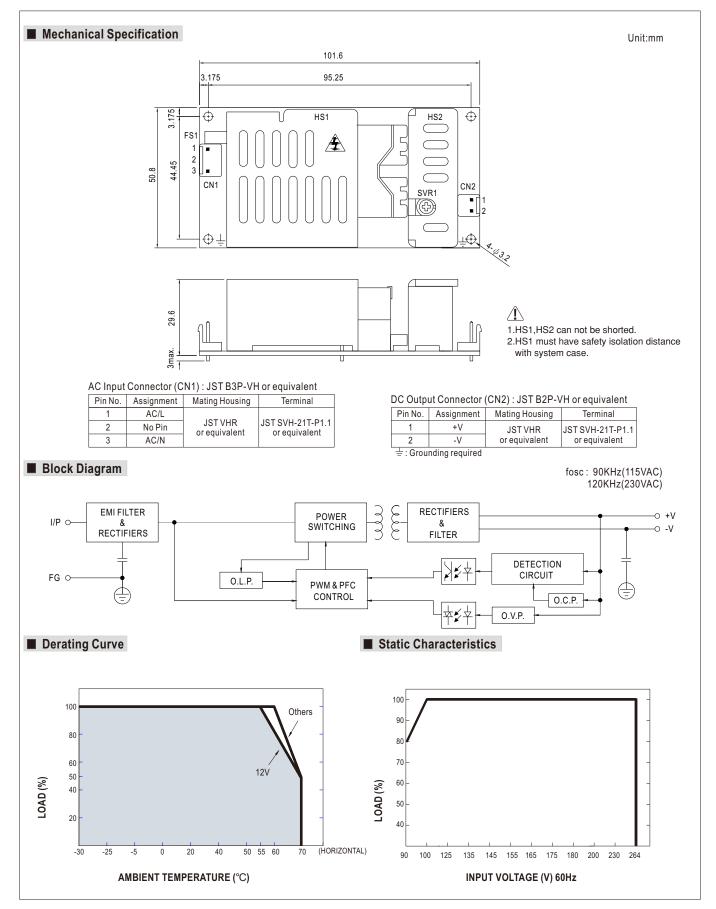
SPECIFICATION

MODEL		PLP-60-12	PLP-60-24	PLP-60-48
ОИТРИТ	DC VOLTAGE	12V	24V	48V
	CONSTANT CURRENT OPERATION VOLTAGE Note.5	9 ~ 12V	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	4.5Vp-p	4.8Vp-p
	CURRENT ADJ. RANGE	3.75 ~ 5A	1.875 ~ 2.5A	0.975 ~ 1.3A
	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		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	PF≧0.9 at 75 ~ 100% load, 115VAC / 230VAC		
	EFFICIENCY (Typ.)	84%	88%	89%
	AC CURRENT (Typ.)	0.8A/115VAC 0.4A/230VAC		
	INRUSH CURRENT (Typ.)	COLD START 35A(twidth=55µs measured at 50% Ipeak) at 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		
		15 ~ 18V	28 ~ 35V	57 ~ 63V
	OVER VOLTAGE	Protection type : Shut down o/p voltage, re-power on to recover		
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "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	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°C/ 70% RH		
	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, criteria A		
OTHERS	MTBF	583.3Khrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	101.6*50.8*29.6mm (L*W*H)		
	PACKING	0.16Kg; 96pcs/16.4Kg/0.89CUFT		
NOTE	All parameters NOT special Ripple & noise are measure Tolerance : includes set up Derating may be needed ur	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. to tolerance, line regulation and load regulation. under 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		

- 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.
- 6. Heat sink HS1,HS2 can not be shorted.
- 7. Heat sink HS1 must have 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.

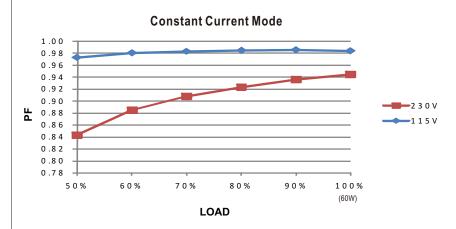
 9. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.





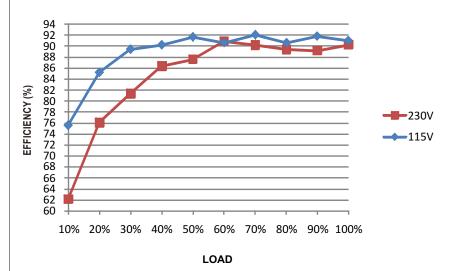


■ Power Factor Characteristic



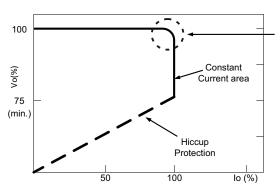
■ EFFICIENCY vs LOAD (48V Model)

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.