



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

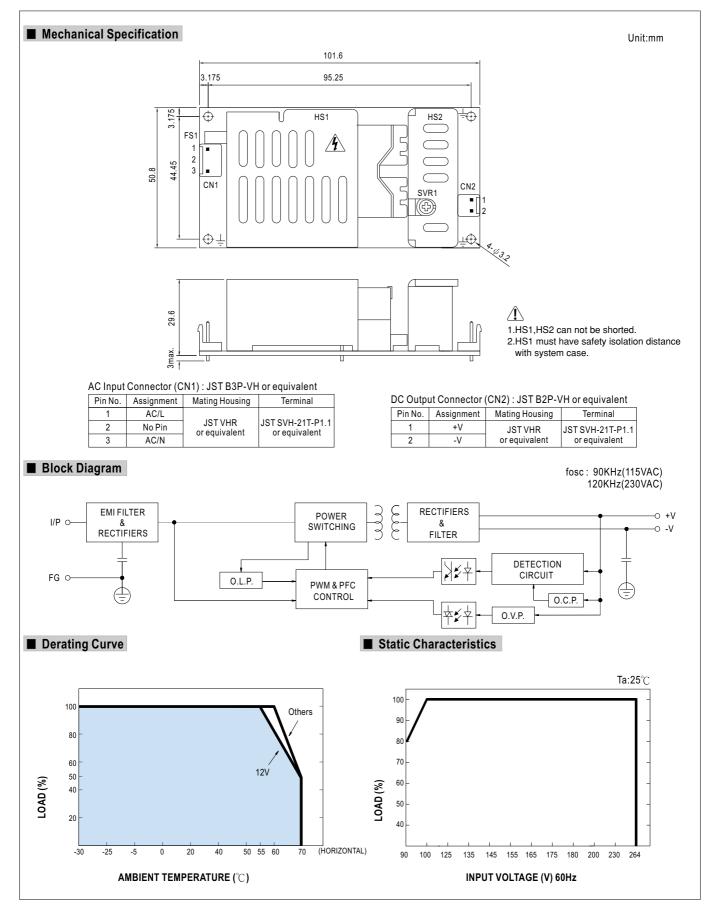
SPECIFICATION



MODEL		PLP-60-12	PLP-60-24	PLP-60-48	
	DC VOLTAGE	12V	24V	48V	
ОИТРИТ	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	62.5W	
	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			,,,,,	
	LINE REGULATION	±3.0%			
	LOAD REGULATION	±5.0%			
	SETUP TIME	1000ms / 230VAC 2000ms / 115VAC at full load			
		90 ~ 264VAC			
INPUT	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR	PF ≥ 0.9 at 75 ~ 100% load, 115VAC / 230VAC			
	EFFICIENCY(Typ.)	84% 88% 89%			
	AC CURRENT	0.8A/115VAC 0.4A/230VAC			
	INRUSH CURRENT(max.)	42A/230VAC			
	LEAKAGE CURRENT	<0.75mA / 240VAC			
	LLARAGE CORRENT	100 ~ 110%			
PROTECTION	OVER CURRENT Note.5				
		Protection type: Constant current limiting, recovers automatically after fault condition is removed Protection type: Hiccup mode, recovers automatically after fault condition is removed			
	SHORT CIRCUIT		28 ~ 35V	57 001	
	OVER VOLTAGE	15 ~ 18V	==:	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				
	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	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	Ripple & noise are measure to LED's is not suggested for tolerance: includes set up 4. Derating may be needed up 5. Constant current operation reconfirm special electrical 6. Heat sink HS1,HS2 can no 7. Heat sink HS1 must have set to LED's included in the sink HS1 must have set to LED's includes the sink HS1 must have set to LED's includes the sink HS1 must have set to LED's includes the sink HS1 must have set to LED's includes the sink HS1 must have set to LED's includes the sink HS1 must have set to LED's includes the sink HS1 must have set to LED's includes the set to LED's i	ers NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor, direct connecting not suggested for models with "RIPPLE & NOISE" > ±10% and using additional drivers is highly recommended. includes set up tolerance, line regulation and load regulation. ay be needed under low input voltage. Please check the static characteristics for more details. Irrent operation region is within 75% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please poecial electrical requirements for some specific system design. S1,HS2 can not be shorted. S1 must have safety isolation distance with system case. 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.

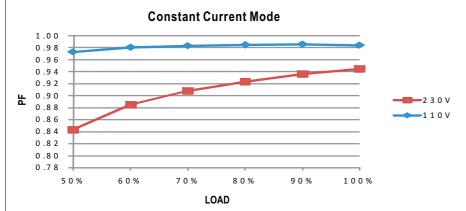






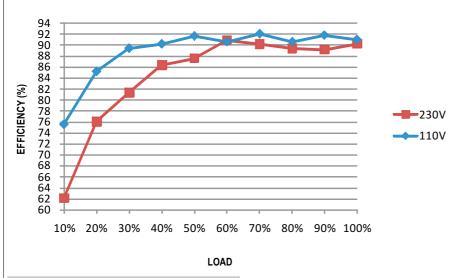
■ Power Factor Characteristic

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



■ EFFICIENCY vs LOAD (48V Model)

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

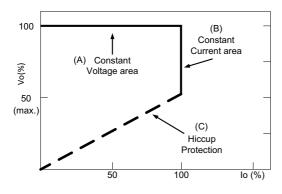


■ DRIVING METHODS OF LED MODULE

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