



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



■ GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

SPECIFICATION

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	R	S FN/FN61347-1 -2-13	

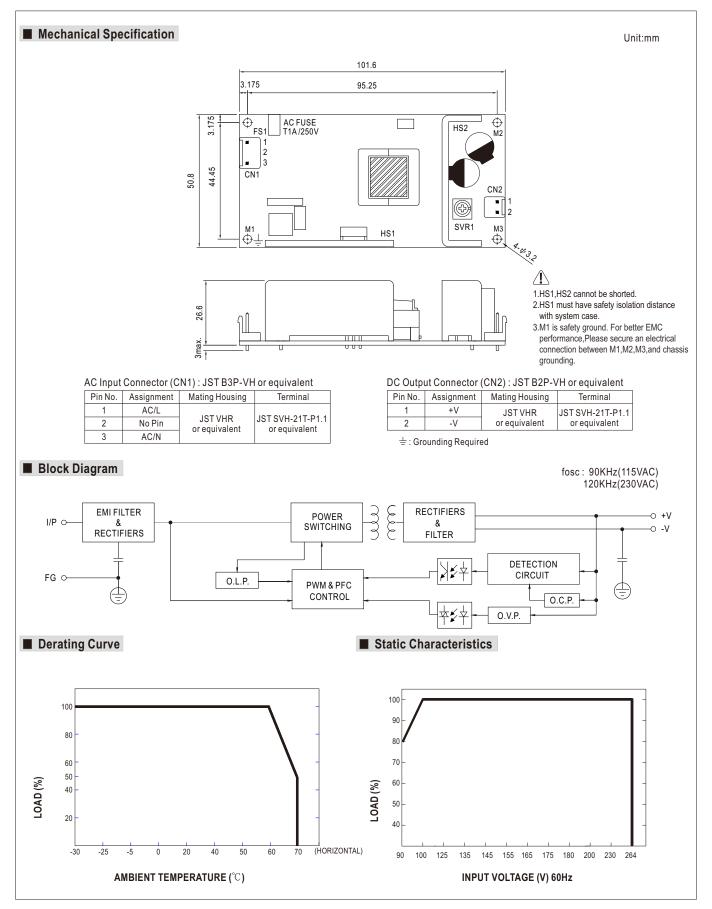
MODEL		PLP-30-12	PLP-30-24	PLP-30-48		
OUTPUT	DC VOLTAGE	12V	24V	48V		
	CONSTANT CURRENT REGION Note.5	9 ~ 12V	18 ~ 24V	36 ~ 48V		
	RATED CURRENT	2.5A	1.3A	0.63A		
	CURRENT RANGE	0 ~ 2.5A	0 ~ 1.3A	0 ~ 0.63A		
	RATED POWER	30W	31.2W	30.24W		
	RIPPLE & NOISE (max.) Note.2	2Vp-p	2.4Vp-p	4.8Vp-p		
	CURRENT 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	500ms / 230VAC 1200ms / 115VAC at full load				
	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC				
INPUT	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF>0.9 at 75 ~ 100% load , 115VAC / 230VAC				
	TOTAL HARMONIC DISTORTION	THD< 20% when output loading≥75% at 115VAC/230VAC input				
	EFFICIENCY (Typ.)	83%	85.5%	86.5%		
	AC CURRENT (Typ.)	0.4A/115VAC				
	INRUSH CURRENT (max.)	COLD START 25A(twidth=45μs measured at 50% Ipeak) at 230VAC				
	MAX.No. of PSUs on 16A CIRCUIT BREAKER	64units (circuit breaker of type B) / 64 units (circuit breaker of type C) 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	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 "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	GB19510.1,GB19510.14,UL8750, TUV BS EN/EN61347-1, BS EN/EN61347-2-13, CSA C22.2 No. 250.0-08(except for 48V), EAC TP TC 004 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 GB/T 17743, GB17625.1,BS EN/EN55015, BS EN/EN61000-3-2 Class C (≥75% load); BS EN/EN61000-3-3, EAC TP TC 020				
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035,BS EN/EN61547, light industry level, EAC TP TC 020				
OTHERS	MTBF	5126.3K hrs min. Telcordia SR-332 (Bellcore); 580.9K hrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	101.6*50.8*26.6mm (L*W*H)				
	PACKING	0.12Kg; 108pcs/13Kg/0.89CUFT				
NOTE	1 All parameters NOT speciall	lly mentioned are measured at 230VAC input. rated load and 25°C of ambient temperature.				

NOTE

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- Derating may be needed under low input voltage. Please check the static characteristics for more details.
 Please refer to "DRIVING METHODS OF LED MODULE".
- 6. 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. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)

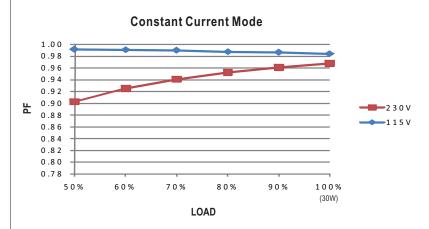
- 7. Heat Sink HS1,HS2 can not be shorted.
 8. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.
 9. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently
- 10. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm 360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx





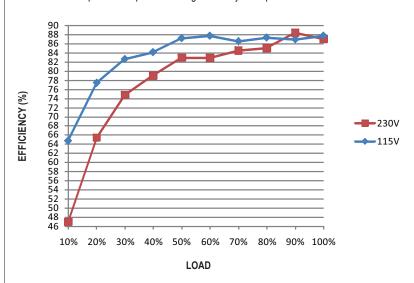


■ Power Factor Characteristic



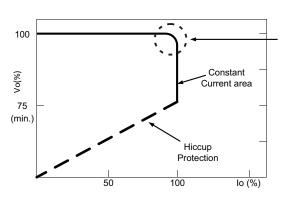
■ EFFICIENCY vs LOAD (48V Model)

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



■ DRIVING METHODS OF LED MODULE

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.