

PLP-60 series



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

SPECIFIC	ATION			BS EN/EN61347-1,-2-13
MODEL		PLP-60-12	PLP-60-24	PLP-60-48
	DC VOLTAGE	12V	24V	48V
OUTPUT	CONSTANT CURRENT REGION 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	4.8Vp-p
	CURRENT ADJ. RANGE	3.75 ~ 5A	1.875 ~ 2.5A	0.975 ~ 1.3A
	VOLTAGE TOLERANCE Note.3			
	LINE REGULATION	生3.0%		
	LOAD REGULATION	±5.0%		
	SETUP TIME	500ms / 230VAC 1200ms / 115VAC at full load		
		90 ~ 264VAC 127 ~ 370VDC		
INPUT	FREQUENCY RANGE	47 ~ 63Hz		
		PF≧0.9 at 75 ~ 100% load, 115VAC / 230VAC		
	POWER FACTOR (Typ.) TOTAL HARMONIC DISTORTION			
		84%		89%
	EFFICIENCY (Typ.)		88%	03.0
	AC CURRENT (Typ.)	0.8A/115VAC 0.4A/230VAC		
	INRUSH CURRENT (max.)	COLD START 35A(twidth=55µs measured at 50% Ipeak) at 230VAC		
	MAX.No. of PSUs on 16A CIRCUIT BREAKER	32units (circuit breaker of type B) / 32 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		
		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	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 GB17625,GB17743, 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/EN55024,BS EN/EN61547, light industry level, criteria A,EAC TP TC 020		
	MTBF	583.3K hrs 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		
NOTE	 Ripple & noise are measured Tolerance : includes set up tol Derating may be needed under Please refer to "DRIVING ME" Heat sink HS1,HS2 can not bo Heat sink HS1 must have safe The power supply is considere complete installation, the final Direct connecting to LEDs is s To fulfill requirements of the l connected to the mains. The power supply is consider a 360mm "360mm metal plate perform these EMC tests, ple 	e shorted. ty isolation distance with system case. ed as a component that will be operated in cou- equipment manufacturers must re-qualify EM uggested, but is not suitable for using additior atest ErP regulation for lighting fixtures, this L red a component which will be installed into a	I pair-wire terminated with a 0.1u naracteristics for more details. Directive on the complete insta al drivers. ED power supply can only be us final equipment. All the EMC tes must be re-confirmed that it still r supplies." (as available on http:	If & 47uf parallel capacitor. Since EMC performance will be affected by the allation again. Seed behind a switch without permanently sts are been executed by mounting the unit on meets EMC directives. For guidance on how to //www.meanwell.com)



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DRIVING METHODS OF LED MODULE

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



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.