

PLP-60 series

User's Manual



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

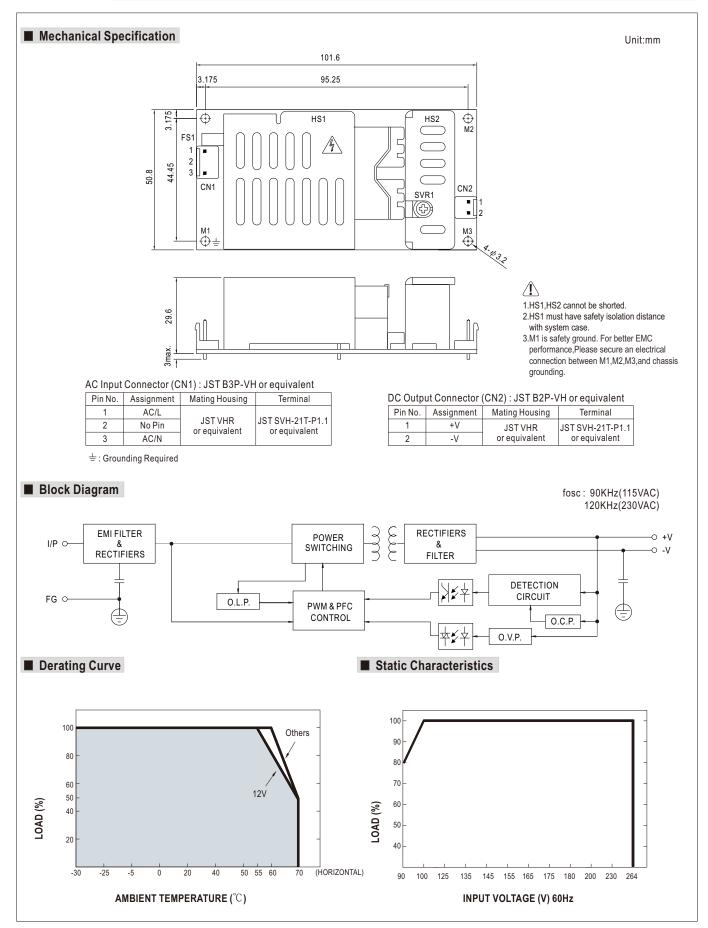
Features :

- 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	ATION	PLP-60-12	PLP-60-24	PLP-60-48			
WODEL	DC VOLTAGE	12V	24V	48V			
OUTPUT	CONSTANT CURRENT REGION Note.5		18 ~ 24V	48V 36~48V			
	RATED CURRENT	9~12V 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-р 0.975 ~ 1.3А			
	CURRENT ADJ. RANGE VOLTAGE TOLERANCE Note.3	3.75 ~ 5A ±10%	1.875 ~ 2.5A	0.975~1.5A			
	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 FREQUENCY RANGE 47 ~ 63Hz 47 ~ 63Hz						
		$47 \sim 63$ Hz PE>0.9 at 75 ~ 100% load 1151/AC / 2301/AC					
	POWER FACTOR (Typ.) TOTAL HARMONIC DISTORTION	PF≧0.9 at 75 ~ 100% load, 115VAC / 230VAC					
	EFFICIENCY (Typ.) AC CURRENT (Typ.)	84% 88% 89%					
		0.8A/115VAC 0.4A/230VAC					
	INRUSH CURRENT (max.) COLD START 35A(twidth=55µs measured at 50% lpeak) 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					
	LEARAGE CORRENT						
	OVER CURRENT Note.5	100 ~ 110%					
PROTECTION		Protection type : Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed					
PROTECTION SHO	SHORT CIRCUIT	15 ~ 18V	28 ~ 35V	57 ~ 63V			
	OVER VOLTAGE			57~05V			
		Protection type : Shut down o/p voltage, re-power on to recover -30 ~ +70°C (Refer to "Derating Curve")					
	WORKING TEMP.	UMIDITY 20 ~ 95% RH non-condensing					
	WORKING HUMIDITY						
ENVIRONMENT	STORAGE TEMP., HUMIDITY						
	TEMP. COEFFICIENT	$\pm 0.03\%$ °C (0 ~ 50 °C)					
	VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes					
	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					
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC					
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH					
2	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					
		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					
	MTBF	5065.8K hrs min. Telcordia SR-332 (Bellcore) ; 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	 Tolerance : includes set up tol Derating may be needed unde Please refer to "DRIVING ME" Heat sink HS1,HS2 can not bu Heat sink HS1 must have safe The power supply is considere complete installation, the final (as available on https://www.m Direct connecting to LEDs is s To fulfill requirements of the la connected to the mains. The power supply is considere a 360mm metal plate 	a shorted. ty isolation distance with system case ad as a component that will be operate equipment manufacturers must re-qua eanwell.com//Upload/PDF/EMI_staten uggested, but is not suitable for using atest ErP regulation for lighting fixtures ed a component which will be installed a with 1mm of thickness. The final equipment of thickness.	tion. static characteristics for more details d in combination with final equipmer lify EMC Directive on the complete in ent_en.pdf) additional drivers. this LED power supply can only be d into a final equipment. All the EMC ipment must be re-confirmed that it it	t. Since EMC performance will be affected by the			

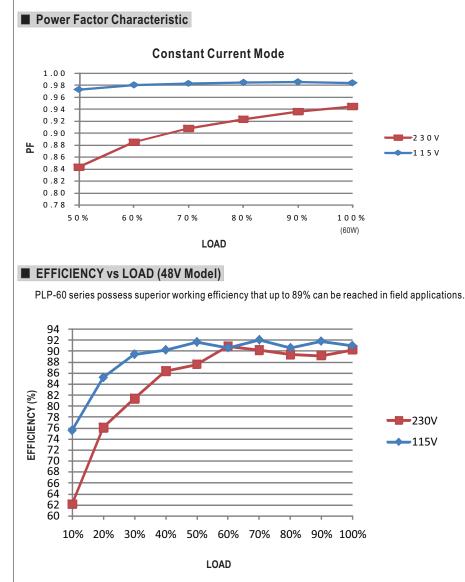


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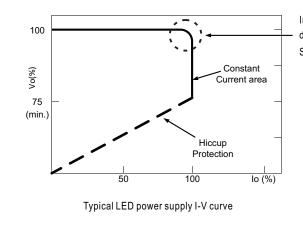


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DRIVING METHODS OF LED MODULE

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.