

30W Single Output LED Power Supply

PLP-30 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

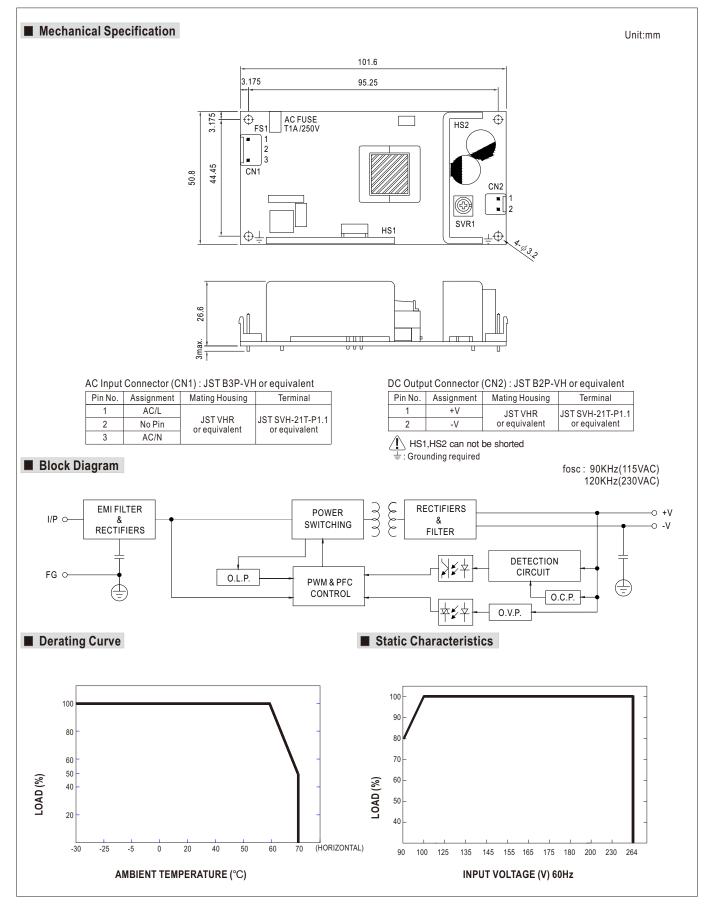


SPECIFICATION

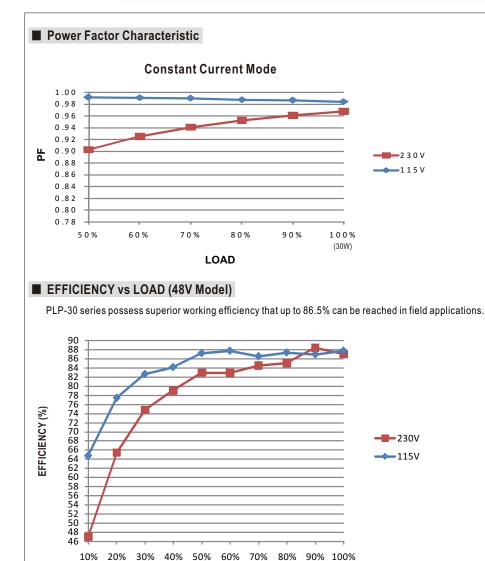
MODEL		PLP-30-12	PLP-30-24	PLP-30-48	
OUTPUT	DC VOLTAGE	12V	24V	48V	
	CONSTANT CURRENT OPERATION VOLTAGE Note.5	9 ~ 12V	18 ~ 24V	36 ~ 48V	
	RATED CURRENT	2.5A	1.3A	0.63A	
	CURRENT RANGE	0 ~ 2.5A	0~1.3A	0~0.63A	
	RATED POWER	30W	31.2W	30.24W	
	RIPPLE & NOISE (max.) Note.2	2Vp-p	2.4Vp-p	4.8Vp-p	
	CURRENT 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	1200ms / 230VAC 2200ms / 115VAC at full load			
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR (Typ.)	PF>0.9 at 75 ~ 100% load , 115VAC / 230VAC			
	EFFICIENCY (Typ.)	83%	85.5%	86.5%	
	AC CURRENT (Typ.)	0.6A/115VAC 0.3A/230VAC			
	INRUSH CURRENT (Typ.)	COLD START 25A(twidth=45µs measured at 50% lpeak) 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 voltag	e, 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	580.8Khrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	101.6*50.8*26.6mm (L*W*H)			
	PACKING	0.12Kg; 108pcs/13Kg/0.89CUFT			
NOTE	 Pipple & noise are measure Tolerance : includes set up Derating may be needed ur Constant current operation reconfirm special electrical The power supply is consid complete installation, the fir Heat Sink HS1,HS2 can no 	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 requirements for some specific system design. dered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the nal equipment manufacturers must re-qualify EMC Directive on the complete installation again. ot be shorted. is suggested, but is not suitable for using additional drivers.			
			ing additional drivers.	File Name PI P-30-SP	



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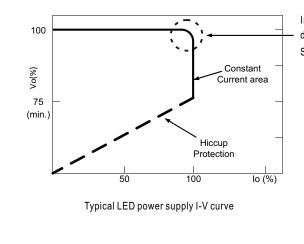




LOAD

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.