



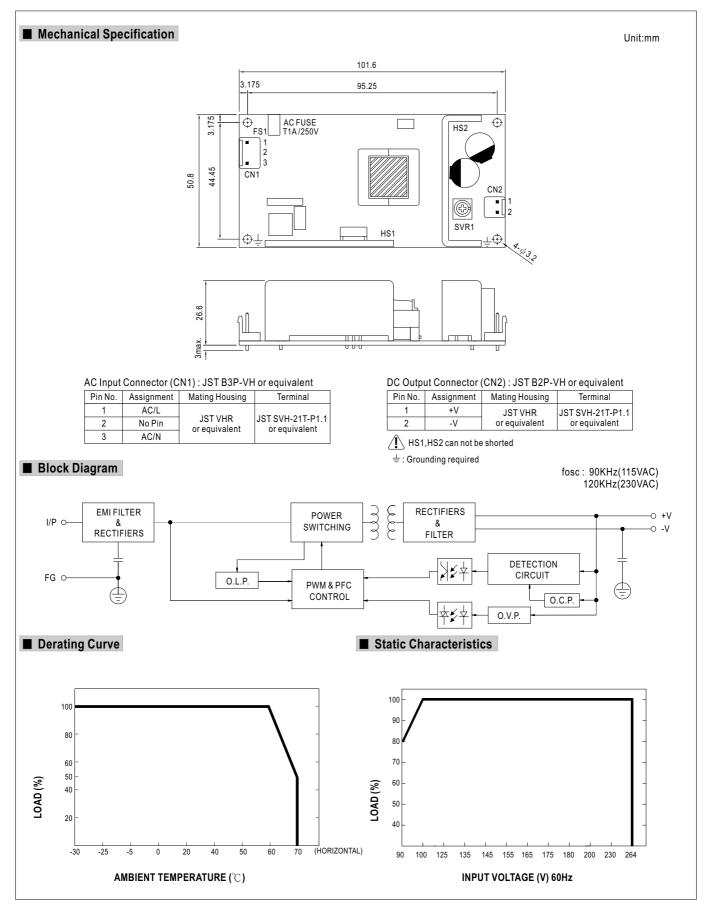
## Features:

- 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



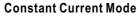
MODEL		PLP-30-12	PLP-30-24	PLP-30-48	
ОИТРИТ	DC VOLTAGE	12V	24V	48V	
	CONSTANT CURRENT OPERATION VOLTAGE Note.5		18 ~ 24V	36 ~ 48V	
	RATED CURRENT	2.5A	1.3A	0.63A	
	CURRENT RANGE	0 ~ 2.5A	0 ~ 1.3A	0 ~ 0.63A	
	RATED POWER	30W	31.2W	30.24W	
	RIPPLE & NOISE (max.) Note.2		2.4Vp-p	4.8Vp-p	
	CURRENT ADJ. RANGE	1.875 ~ 2.5A	0.975 ~ 1.3A	0.475 ~ 0.63A	
	VOLTAGE TOLERANCE Note.3				
	LINE REGULATION	±3.0%			
	LOAD REGULATION	±5.0%			
	SETUP TIME	1200ms / 230VAC 2200ms / 115VAC at full load			
		90 ~ 264VAC 127 ~ 370VDC			
INPUT		47 ~ 63Hz			
	POWER FACTOR (Typ.)	47 ~ 63HZ PF>0.9 at 75 ~ 100% load , 115VAC / 230VAC			
	POWER FACTOR (Typ.)			00.50/	
	EFFICIENCY (Typ.)	83%	85.5%	86.5%	
	AC CURRENT (Typ.)	0.4A/115VAC 0.2A/230VAC			
	INRUSH CURRENT (max.)	40A/230VAC			
	LEAKAGE CURRENT	<0.75mA / 240VAC			
PROTECTION	OVER CURRENT Note.5				
		Protection type: Constant current limiting, recovers automatically after fault condition is removed			
	SHORT CIRCUIT	Hiccup mode, recovers automatically after		I	
	OVER VOLTAGE	15 ~ 18V	28 ~ 33V	57 ~ 63V	
		Protection type: Snut 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%/℃ (0~50°C)			
	VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes			
	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			
SAFETY &	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			
EMC	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	Ripple & noise are measure     Tolerance: includes set up     Derating may be needed ur     Constant current operation reconfirm special electrical of the power supply is consident complete installation, the fire.     Heat Sink HS1,HS2 can no	ameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  noce: includes set up tolerance, line regulation and load regulation.  Ing may be needed under low input voltage. Please check the static characteristics for more details.  Int current operation region is within 75% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please rm special electrical requirements for some specific system design.  Insert supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the standard the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.  Installation again.			

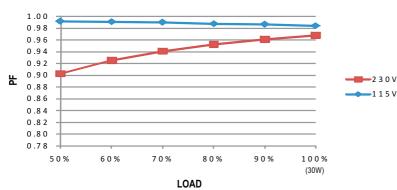






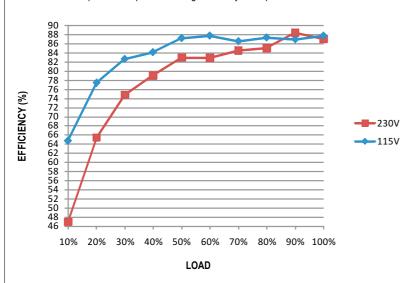
## ■ Power Factor Characteristic





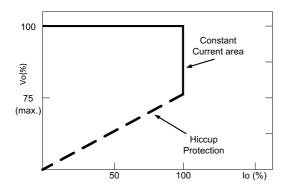
## ■ EFFICIENCY vs LOAD (48V Model)

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