



■ Features :

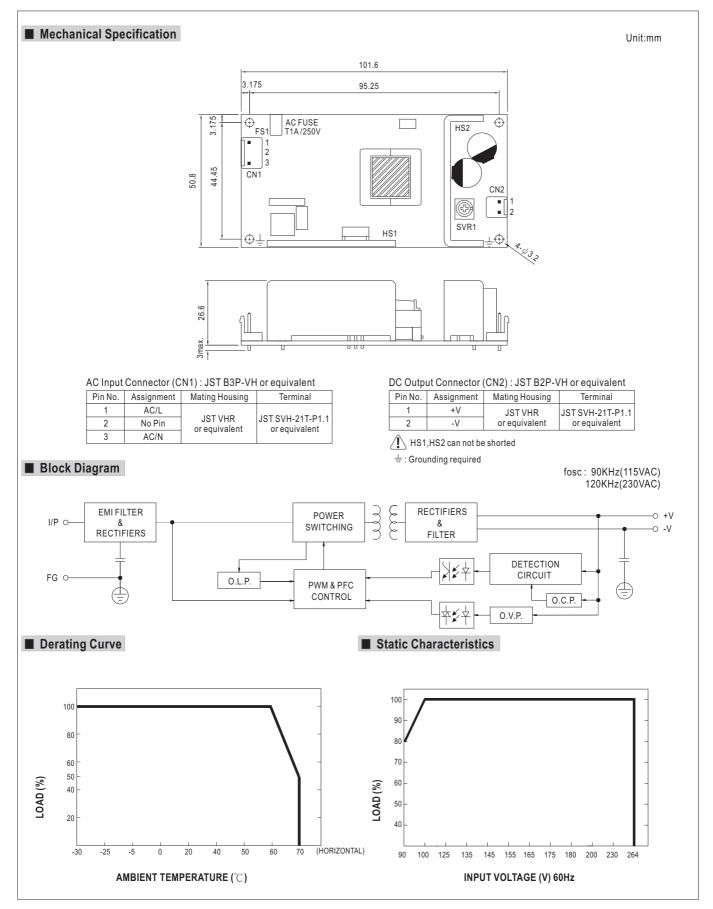
- Universal AC input / Full range
- Protections: Short circuit / Over current / Over voltage
- Built-in active PFC function
- · Cooling by free air convection
- Class 2 power unit
- Output current level adjustable
- 100% full load burn-in test
- High reliability
- Suitable for built-in applications of LED lighting
- 2 years warranty



SPECIFICATION

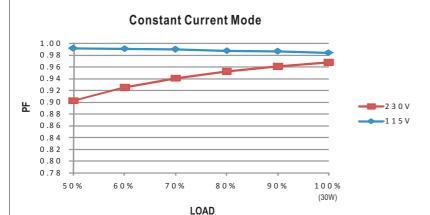
DC VOLTAGE	12V		
		24V	48V
CONSTANT CURRENT OPERATION VOLTAGE Note.5	9 ~ 12V	18 ~ 24V	36 ~ 48V
RATED CURRENT	2.5A	1.3A	0.63A
CURRENT RANGE	0 ~ 2.5A	0 ~ 1.3A	0 ~ 0.63A
RATED POWER	30W	31.2W	30.24W
RIPPLE & NOISE (max.) Note.2	2Vp-p	2.4Vp-p	4.8Vp-p
CURRENT ADJ. RANGE	1.875 ~ 2.5A	0.975 ~ 1.3A	0.475 ~ 0.63A
VOLTAGE TOLERANCE Note.3	±10% ±3.0% ±5.0%		
LINE REGULATION			
LOAD REGULATION			
SETUP TIME	1200ms / 230VAC 2200ms / 115VAC	at full load	
VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC		
FREQUENCY RANGE	47 ~ 63Hz		
POWER FACTOR (Typ.)	PF>0.9 at 75 ~ 100% load, 115VAC / 2	230VAC	
EFFICIENCY (Typ.)	83%	85.5%	86.5%
AC CURRENT (Typ.)	0.4A/115VAC 0.2A/230VAC	'	
INRUSH CURRENT (max.)	COLD START 25A(twidth=45 µs measured at 50% lpeak) at 230VAC		
LEAKAGE CURRENT	<0.75mA/240VAC		
OVER CURRENT	100~110%		
OVER CURRENT Note.5	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 ~ 33V	57 ~ 63V
OVER VOLTAGE	Protection type : Shut down o/p voltag	e, re-power on to recover	
WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve	:")	
WORKING HUMIDITY	20 ~ 95% RH non-condensing -40 ~ +80°C, 10 ~ 95% RH ±0.03%/°C (0 ~ 50°C)		
STORAGE TEMP., HUMIDITY			
TEMP. COEFFICIENT			
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		
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		
MTBF	•		•
DIMENSION	101.6*50.8*26.6mm (L*W*H) 0.12Kg; 108pcs/13Kg/0.89CUFT		
PACKING			
Ripple & noise are measure Tolerance : includes set up Derating may be needed ur Constant current operation reconfirm special electrical The power supply is consided complete installation, the fir Heat Sink HS1,HS2 can no	and at 20MHz of bandwidth by using a tolerance, line regulation and load regulation and load regulation in the strength of the	12" twisted pair-wire terminated pulation. he static characteristics for more put voltage. This is the suitable in design. rated in combination with final e qualify EMC Directive on the co	with a 0.1uf & 47uf parallel capacitor. e details. operation region for LED related applications, but please quipment. Since EMC performance will be affected by the
	VOLTAGE RANGE VOLTAGE RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.) AC CURRENT (Typ.) NRUSH CURRENT (max.) LEAKAGE CURRENT OVER CURRENT Note.5 SHORT CIRCUIT OVER VOLTAGE WORKING TEMP. WORKING HUMIDITY EMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE SOLATION RESISTANCE EMC EMISSION EMC IMMUNITY WITHSTAND VOLTAGE SOLATION RESISTANCE EMC EMISSION EMC IMMUNITY WITHSTAND VOLTAGE SOLATION RESISTANCE EMC EMISSION EMC IMMUNITY UTBF DIMENSION PACKING 1. All parameters NOT specia 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Derating may be needed ur 5. Constant current operation reconfirm special electrical i 6. The power supply is consid complete installation, the fir 7. Heat Sink HS1,HS2 can no	### VOLTAGE RANGE Note.4 90 ~ 264VAC 127 ~ 370VDC	### According to the power of the substitution of the power of the substitution of the power of the substitution of the subst





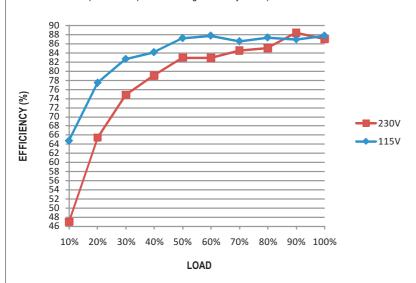


■ Power Factor Characteristic



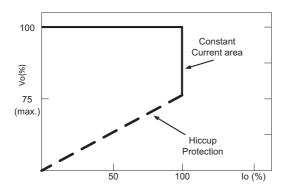
■ EFFICIENCY vs LOAD (48V Model)

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