



■ Features :

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Built-in active PFC function
- Cooling by free air convection
- No minimum load requirement
- 100% full load burn-in test
- High reliability
- Suitable for LED lighting and moving sign applications
- 2 years warranty

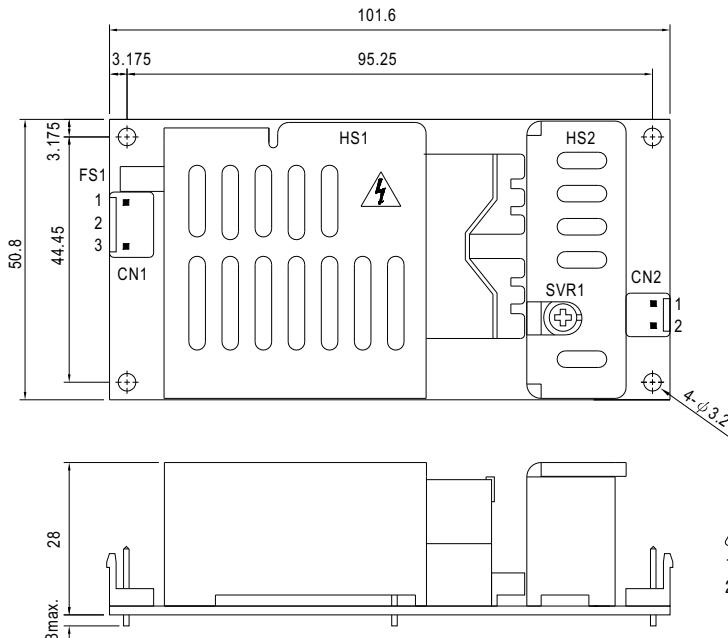
 SELV
 EQUIVALENT (except for 48V)


SPECIFICATION

MODEL	PLP-60-12	PLP-60-24	PLP-60-48
OUTPUT	DC VOLTAGE	12V	24V
	CONSTANT CURRENT REGION Note.5	9 ~ 12V	18 ~ 24V
	RATED CURRENT	5A	2.5A
	CURRENT RANGE	0 ~ 5A	0 ~ 2.5A
	RATED POWER	60W	60W
	RIPPLE & NOISE (max.) Note.2	4.5Vp-p	4.5Vp-p
	CURRENT ADJ. RANGE	3.75 ~ 5A	1.875 ~ 2.5A
	VOLTAGE TOLERANCE Note.3	±10%	
	LINE REGULATION	±3.0%	
	LOAD REGULATION	±5.0%	
INPUT	SETUP TIME	1000ms / 230VAC 2000ms / 115VAC at full load	
	VOLTAGE RANGE	90 ~ 264VAC	
	FREQUENCY RANGE	47 ~ 63Hz	
	POWER FACTOR	PF ≥ 0.9 at 75 ~ 100% load, 115VAC / 230VAC	
	EFFICIENCY(Typ.)	84%	88%
	AC CURRENT	0.8A/115VAC 0.4A/230VAC	
	INRUSH CURRENT(max.)	42A/230VAC	
PROTECTION	LEAKAGE CURRENT	<0.75mA / 240VAC	
	OVER CURRENT Note.5	105 ~ 115%	
		Protection type : Constant current limiting, recovers automatically after fault condition is removed	
	SHORT CIRCUIT	Protection type : Hiccup mode, recovers automatically after fault condition is removed	
ENVIRONMENT	OVER VOLTAGE	14 ~ 16V	28 ~ 35V
		Protection type : Shut down o/p voltage, re-power on to recover	
	WORKING TEMP.	-30 ~ +70°C (Refer to output load derating curve)	
	WORKING HUMIDITY	20 ~ 95% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH	
SAFETY & EMC	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)	
	VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes	
	SAFETY STANDARDS	Design refer to TUV EN61347-1, EN61347-2-13, UL60950-1	
OTHERS	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	
	EMI CONDUCTION & RADIATION	Compliance to EN55015	
	HARMONIC CURRENT	Compliance to EN61000-3-2 Class C (≥ 75% load); EN61000-3-3	
NOTE	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN61547, light industry level, criteria A	
	MTBF	583.3Khrs min. MIL-HDBK-217F (25°C)	
	DIMENSION	101.6*50.8*28mm (L*W*H)	
NOTE	PACKING	0.16Kg; 96pcs/16.4Kg/0.89CUFT	
	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.		
	2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor, direct connecting to LED's is not suggested for models with CURRENT "RIPPLE & NOISE" > ±10% and using additional drivers is highly recommended.		
	3. Tolerance : includes set up tolerance, line regulation and load regulation.		
	4. Derating may be needed under low input voltage. Please check the derating curve for more details.		
	5. Constant current operation region is within 75% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design.		
NOTE	6. Heat sink HS1,HS2 can not be shorted.		
	7. Heat sink HS1 must have safety isolation distance with system case.		

■ Mechanical Specification

Unit:mm



! 1.HS1,HS2 can not be shorted.
2.HS1 must have safety isolation distance with system case.

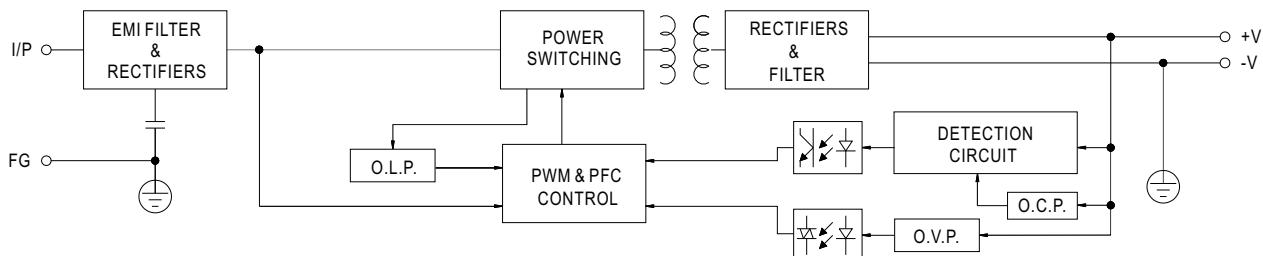
AC Input Connector (CN1) : JST B3P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	AC/L	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2	No Pin		
3	AC/N		

DC Output Connector (CN2) : JST B2P-VH or equivalent

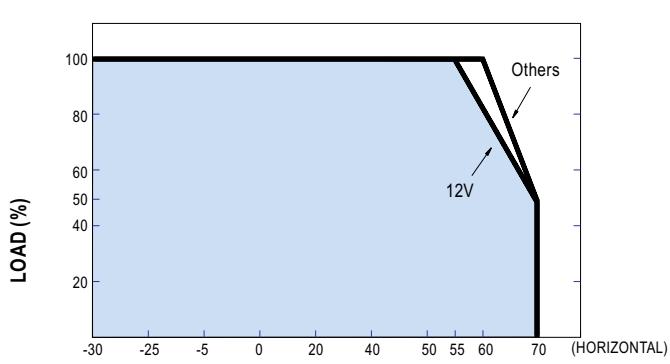
Pin No.	Assignment	Mating Housing	Terminal
1	+V	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2	-V		

■ Block Diagram

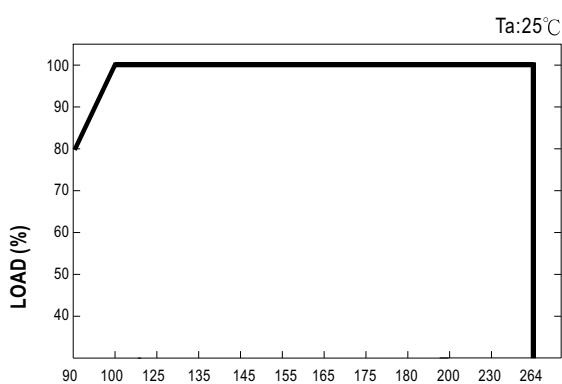
 fosc : 90KHz(115VAC)
120KHz(230VAC)


■ Derating Curve

■ Static Characteristics



AMBIENT TEMPERATURE (°C)



INPUT VOLTAGE (V) 60Hz