

PV-LG100-12-24

Features

- Universal AC input/Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built_in active PFC function
- Fully encapsulated with IP67 level
- UL1310 Class 2 power unit, pass LPS
- Cooling by free air convection
- 100% full load burn-in test
- High reliability
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- Damp / wet location outdoor application
- 1 years warranty

Specification

	Model	PV-LG12100	PV-LG24100	PV-LG48100
Output	DC voltage	12V	24V	48V
	Rated current	8A	4A	2.1A
	Rated power	100W	100W	100W
	Ripple & noise	100mVp-p	200mVp-p	200mVp-p
	Voltage tolerance	±3.0%	±3.0%	±2.0%
	Line regulation	±1%	±1%	±1%
	Load regulation	±2%	±2%	±2%
	Setup, rise time	1200ms, 80ms / 230VAC 1200ms, 80ms / 115VAC at full load		
	Hold uptime(typ.)	60ms / 230VAC 30ms / 115VAC at full load		
Input	Voltage range	100 ~ 240VAC		
	Frequency range	47~ 63Hz		
	Power factor	PF>0.95/115VAC at full load PF≥0.9 at 75 ~ 100% load, 115VAC / 230VAC		
	Efficiency	83%	85%	85%
	Ac current (at full load)	12V:0.8A/115VAC 0.4A/230VAC 15V:0.9A/115VAC 0.45A/230VAC 20V ~ 48V:1.1A/115VAC 0.55A/230VAC		
	Inrush current (max.)	40A/230VAC		
	Leakage current	0.75mA/240VAC		
Protection	Over current	130 ~ 150%		
	Short circuit	Protection type: Constant current limiting, recovers automatically after fault condition is removed		
	Over voltage	13 ~ 16V	27 ~ 34V	52 ~ 64V
		Protection type : Shut down o/p voltage, re-power on to recover		
	Over temperature	110°C±5°C (TSW1) detecton heatsink of power transistor		
		Protection type: Shut down o/p voltage, recovers automatically after temperature goes down		
Environ-ment	Working temp.	-30°C ~ +45°C		
	Working humidity	20°C ~ 90% RH non-condensing		
	Storage temp., Humidity	-40°C~80°C, 10~95% RH		
	Temp. Coefficient	±0.03%/°C (0~50°C)		
	Vibration	10 ~ 500Hz, 5G12min./1cycle, period for 72min. each along X, Y, Z axes		

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Safety & EMC	Safety standards	Design refer to UL1310 Class 2, TUV EN60950-1, EN61347-2-13, CAN/CSA C22.2 No. 223-M91, meet IP67		
	Withstand voltage	I/P-O/P: 3.75KVAC I/P-FG: 1.88KVAC O/P-FG: 0.5KVAC		
	Isolation resistance	I/P-O/P: >100M Ohms / 500VDC / 25~70% RH		
	Emi conduction & radiation	Compliance to EN55015, EN55022 (CISPR22) Class B		
	Harmonic current	Compliance to EN61000-3-2 Class C (≥75% load); EN61000-3-3		
	Ems immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; ENV50204, EN55024, EN61547, light industry level (surge 4KV), criteria A		
	Dimension	195x65.5x40.3mm (L*W*H)		

Mechanical Specification

