



FEATURES

- Stable constant voltage output
- Universal AC input / Full range
- Overvoltage, overload, short circuit, over temperature protection
- Suitable for dry and wet conditions (note 7.)
 - Isolation class II
 - IP67 protection
- Cooling by free air convection
- 5-year warranty

SPECIFICATION		ZPV-10-12	ZPV-10-24
OUTPUT	DC Voltage	12V	24V
	Rated Current	0.84A	0.42A
	Current Range	0 ÷ 0.84A	0 ÷ 0.42A
	Rated Power	10W	10W
	Line Regulation	± 1%	± 1%
	Load Regulation	± 2%	± 2%
	Setup, Rise Time (note 6.)	1000ms,20ms/(230VAC) at full load 2000ms,20ms/(115VAC) at full load	
	Hold up time	30ms/(230VAC) at full load 8ms/(115VAC) at full load	
	Ripple & Noise (note 2.)	120mVp-p	250mVp-p
	Voltage Tolerance (note 3.)	±3%	
INPUT	Voltage Range	90 ÷ 264VAC 127 ÷ 373VDC	
	Frequency Range	47 ÷ 63HZ	
	Efficiency (Typ.)	≥82%	≥83%
	AC Current (Typ.)	0.12A/230VAC 0.19A/115VAC	
	Inrush Current (Typ.)	COLD START 10A/115VAC 20A/230VAC	
	Leakage Current (Max.)	<0.5mA / 240VAC	
	No Load Power Consumption	<0.5W	

PROTECTION	Overload	120% ÷ 170% rated output current Hiccup mode, auto-recovery after fault condition is removed	120% ÷ 170% rated output current Hiccup mode, auto-recovery after fault condition is removed
	Over Voltage	120% ÷ 150% shut down o/p voltage, re-power on to recover	120% ÷ 150% shut down o/p voltage, re-power on to recover
	Short Circuit	Hiccup mode, auto-recovery after fault condition is removed	
WORKING ENVIRONMENT	Working Temp.	-30 ÷ +70°C (Refer to "derating curve")	
	Working Humidity	20 ÷ 95% RH non-condensing	
	Storage Temp., Humidity	-40 ÷ +85°C, 10 ÷ 95% RH non-condensing	
	Temp. Coefficient	0.03%/°C (0°C ÷ 50°C)	
	Vibration	10 ÷ 500Hz,2G, 10min/1 cycle,60min.each along X,Y, Z axes	
SAFETY & EMC	Safety Standards	EN61347-1, EN61347-2-13, IP67	
	Withstand Voltage	I/P-O/P:3KVac/10mA; I/P-CASE:1.5KVac/10mA; O/P-CASE:0.5KVAC/10mA	
	Isolation Resistance	I/P-O/P:100M ohms/500VDC/25°C/70%	
	EMC Immunity	EN61547	
	EMC Emission	EN55015; EN61000-4-2,3,4,5,6,8,11	
	Harmonic Current	EN61000-3-2, EN61000-3-3	
OTHERS	Dimension	130 x 26 x 22 mm (LxWxH)	
	Weight and Packing	120PCS/CTN 19KGS/CTN	

NOTE:

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 0.1 uf & 47uf parallel capacitor.
3. Tolerance: includes set up tolerance, line regulation and load regulation.
4. Derating may be needed under low input voltage. Please check the static characteristics for more details.
5. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.
6. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.
7. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid direct exposure to sunlight and immersion in water for over 30 minutes.

