

# ARPV-LVP12060M (12V, 5A, 60W, PFC)



## Input specifications

Rating input voltage rated	100V-240VAC
Max input voltage rated	90V~264VAC
Input frequency	47Hz~63Hz
POWER FACTOR	PF>0.9 at full load, 115VAC / 230VAC
Efficiency	$\eta$ >80% at full load, 115VAC / 230VAC
Input current (at full load)	0.70A/115VAC 0.35A/230VAC
Inrush current, cold	40A/230VAC at 50Hz, 25°C
Input over-current protection	FUSE: T3.15AL250VAC
Input connector	Two wire input
Output connector	Two wire output

## Output specifications

DC Voltage	12V $\pm$ 5.0%
Rated Current	5A
Rated Power	60W
Ripple & Noise (Max.)	250mV Vp-p
CURRENT RIPPLE	$\pm$ 1.0%
LINE REGULATION	$\pm$ 1.0%
LOAD REGULATION	$\pm$ 2.0%
Setup, Rise Time	1000ms,80ms/230VAC 1000ms,80ms/115ac at full load
Hold Up Time (Typ.)	60ms / 230VAC 30ms / 115VAC at full load
DIMENSION	162*42.5*34mm (L*W*H)

Attention:

- 1) The output voltage ripple and noise are tested by rated non-reactive resistance load.
- 2) The test for Ripple and Noise: Use 20M oscillograph ,then add 50V/0.1uF ceramic capacitor and 50V/10uF electrolytic capacitor between the two side test point under the normal temperature

## Safety & reliability

Safety standard	Design refer to UL1310 Class 2,TUV EN60950-1, EN61347-2-13, CAN/CSA C22.2 No. 223-M91
Leakage current	2mA MAX at 240VAC

Hi-Pot	I/P-O/P:3KVAC
Insulation resistance	I/P-O/P:100M Ohms / 500VDC / 25 / 70% RH
MTTF	400,000Hours at 25°C & full load

## EMC Characteristics

Conducted emissions	IEC61000-4-6: 2007 & GB/T17626.6-2008 FCC PART15 CLASS B
Radiated emissions	IEC61000-4-3: 2008 & GB/T17626.3-2006 FCC PART15 CLASS B
Harmonic current	IEC61000-4-7: 2009 & GB/T17626.7-2008
ESD(AIR)	IEC61000-4-2: 2008 & GB/T17626.2-2006 IEC61000-4-2 class 3 (8KV)
EFT	IEC61000-4-4: 2011 & GB/T17626.4-2008 IEC61000-4-4 class 3 (4KV)
Surge	IEC61000-4-5: 2005 & GB/T17626.5-2008 IEC61000-4-5 (surge 4KV L-N), criteria A

## Environmental specifications

4.1 Operating Temperature	-20°C ~ +40°C
4.2 Storage Temperature/ Humidity	-40°C ~ +85°C, 10~95% RH
4.3 Operating Humidity	5~95% RH

## Mechanical specification

