

FSV SERIES

12-VOLT POWER CONVERTER/BATTERY CHARGER

Specifications

FEATURES

- Switch-mode technology
- Exceptionally clean DC output
- Tight line-load regulation
- Quickly and efficiently charges batteries
- Designed to withstand low transient AC line voltage
- Current limit and thermal/overload protection
- Lower operating temperature
- Quiet fan operation
- External reverse polarity fuse protection from incorrect
- Smart Charge Controller
- UL and CUL Listed



SPECIFICATIONS

	FSV35-12A-4	FSV45-12A-4	FSV55-12A-4
Input Voltage	120VAC		
Input Frequency	47 – 63Hz		
Input Current	<10AMP	<12AMP	<15AMP
Inrush Current	<40A@120vac		
Hold-Up time	>5ms@120vac		
Power Factor	N/A		
Efficiency (Typ.)	Typical values 85% @ 120Vac		
Output Voltage	13.6V		
Adjust Range	12.5-14.8V		
Output Current MAX CONTINUOUS	35AMP	45AMP	55AMP
Ripple and Noise	<100mV rms		
Start Up delay Time	<1S at 120Vac		
Total Regulation	Line + Load + Temperature + Time: ± 5%		
Voltage Rise Time	<50mS		
Over load Protection	90-120%, Auto resetting		
Short Circuit Protection	Continuous, Shutdown		
Over voltage Protection	105-150%. Auto resetting		
Reverse Voltage	<25VDC		

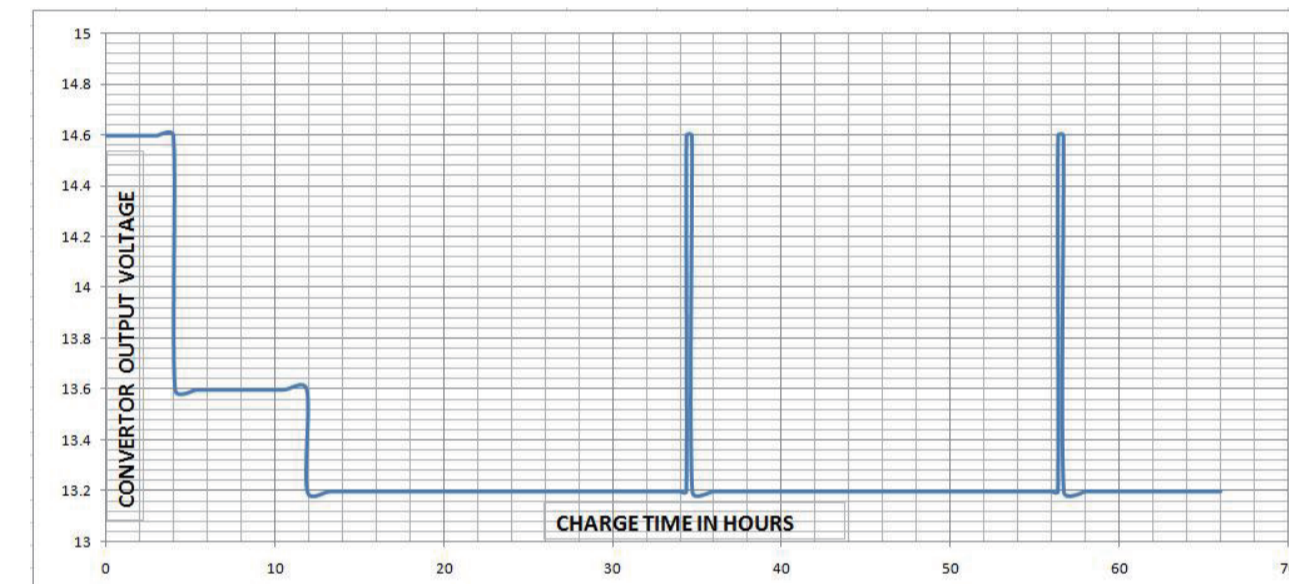
285 mm

210 mm

Operating Temperature	0 to 40 °C
Storage Temperature	-25 to 85 °C
Humidity	5 - 95% RH non-condensing
Internal Fuse	Yes
Vibration	IEC 68-2-6
Shock	IEC 68-2-7
Approximate Dimensions	275mm (11") × 150mm (5.91") × 85mm (3.35")
Weight	2.085kg(4.6lbs)
EMC Emissions	FCC part15 Class A
Safety	UL458
RoHS	Yes

SMART CHARGE STAGE

The FSV series converters have the Charge Wizard controlled charging module built in. The Charge Wizard is a microprocessor-controlled device incorporated in FSV Converters. It constantly monitors the RV battery, and then automatically adjusts the converter output voltage based on its charge status. The Charge Wizard has 2 (2) operating Modes (BOOST, NORMAL). Each Mode is automatically selected by the Charge Wizard and ensures a fast yet safe recharge for your RV battery. See chart below for details.



14.6 Volts (Boost Mode) –charge in approximately 4 hours.

13.6 Volts (Normal Mode) –charge in approximately 8 hours.

13.2 Volts (Battery Full) –The battery is fully charged and the charging process ends.

13.2V-14.6V-13.2V(Desulfuration mode) –charge in every 22 hours.

The integrated Charge Wizards ability to change the output voltage of the converter will significantly reduce the amount of time it takes to recharge your RV battery.

(2023/07/20 REV:E)