

COMPACT & SCALABLE INVERTER

(2500VA)



UPS

INVERTERS

ACCESSORIES

AVR

BATTERIES

SOLAR SOLUTION



1.0
Unity output
power factor



AC/DC charger

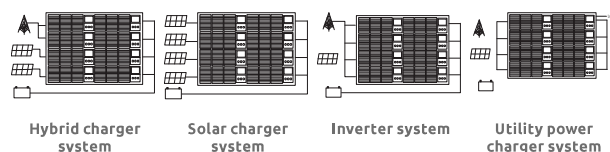


PV charger

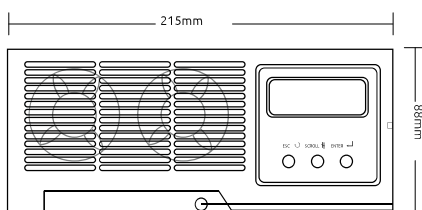
BENEFITS

- ✓ Pure sine wave output
- ✓ Hot-swappable design simplifies installation and maintenance
- ✓ Programmable supply priority for PV, Battery or Grid
- ✓ User-adjustable charging current and voltage
- ✓ Solar charger
- ✓ Monitoring software for real-time status display and control
- ✓ Parallel operation up to 8 units
- ✓ 3-in-1: inverter, AC/DC charger or PV charger
- ✓ Automatic load sharing on AC and DC output

APPLICATION



SCHEMATIC



(2500VA)

FEATURES



Pure sine wave output



bi-direction concept



Technology protects against
low battery



Technology protects against
short circuit

SPECIFICATION

| MODEL NUMBER | FA-INV-48V-2500VA |
|---------------------------|---|
| Capacity | 2500VA/2500W |
| DC INPUT | |
| Nominal DC Voltage | 48 VDC |
| Operating Voltage Range | 40-60 VDC |
| Voltage Ripple | < 2.0 mV |
| Peak to Peak Noise | 150 mV up to 100 MHz |
| Inrush Current | < 2 x I _{rated} |
| AC OUTPUT | |
| Nominal Voltage | 220/230/240 VAC (Selectable) |
| AC Voltage Regulation | ± 2% (max.) |
| Frequency Range | 50 Hz± 0.1 Hz |
| Peak Efficiency | > 93% |
| Harmonic Distortion | < 3 % THD (Linear Load) < 5% THD (Non-linear Load) |
| Overload Capability | >150% for 5 secs, >110% for 10 secs |
| Load Sharing | <5% st 50-100% load |
| AC INPUT | |
| Nominal Voltage | 230 VAC |
| Operating Voltage Range | 185 VAC-265 VAC |
| Frequency Range | 50Hz/60Hz (Auto sensing) |
| DC OUTPUT | |
| Nominal Voltage | 54 VDC |
| Max. Charging Current | 60A |
| Charging Method | 3-step algorithm |
| PV INPUT | |
| Max. Open Circuit Voltage | 400 VDC |
| MPPT Voltage Range | 200 VDC~370 VDC |
| Max. Charging Current | 60A |
| GENERAL | |
| Dimension, D x W x H (mm) | 409x215x88 |
| Net Weight (kgs) | 6 |
| Humidity | 5% to 95% RH (Non-condensing) |
| Operating Temperature | -20°C to 60°C |
| Safety | IEC 60950 |
| Noise Level | Less than 50dB@ 1 Meter |

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Technology for instant change-over
between power and battery and
vice-versa



separated to operate in
different operation modes



inverter, AC/DC charger or
PV charger



Automatic load sharing on
AC and DC output