

- > Suitable for systems from 3 kW to 26 kW
- > AC coupling of all energy sources
- > Fully automatic uninterrupted operation
- > 1-, 3-phase and split-phase, connectable in parallel and modularly extendable
- > Excellent overload characteristics
- > Long battery service life due to optimum battery management system and state of charge evaluation
- > Robust, reliable and durable
- > Compatible with Sunny Family products



SUNNY ISLAND 5048U

New Stand-alone Inverter for Hybrid Applications

The new Sunny Island 5048U features the following innovative product characteristics: ergonomic aluminum enclosure, maximum efficiency of 95 % and OptiCool active ventilation system. Thus, the Sunny Island 5048U is the optimal solution for all off-grid applications which require high quality electricity for the establishment of a reliable AC voltage grid based on renewable energy sources. Its reliable design is ideal for use particularly in special climatic conditions. The intuitive interface and integrated data logger via MMC/SD card facilitates installation and commissioning.

Technical Data

SUNNY ISLAND 5048U

| | SI 5048U |
|--|---|
| Output data | |
| Nominal AC voltage (adjustable) | 120 V (105 V - 132 V) |
| Grid frequency adjustable | 55 Hz - 65 Hz |
| Continuous AC output at 25 °C / 45 °C | 5000 W / 4000 W |
| Continuous AC output at 25 °C for 30 / 5 / 1 min | 6500 W / 7200 W / 8400 W |
| Nominal AC current | 41.7 A |
| Max. current | 150 A (for 100 ms) |
| Output voltage harmonic distortion factor | < 3 % |
| Power factor | -1 to +1 |
| Input data | |
| Input voltage (range) | 120 V (80 V - 150 V) |
| Input frequency | 54 Hz - 66 Hz |
| Max. AC input current (adjustable) | 56 A (2 A - 56 A) |
| Max. input power | 6.7 kW |
| Battery data | |
| Battery voltage (range) | 48 V (41 V - 63 V) |
| Max. battery charging current | 120 A |
| Continuous charging current | 100 A |
| Battery capacity | 100 - 10 000 Ah |
| Charge control | IU ₀ U with automatic full and equalization charge |
| Efficiency/power consumption | |
| Max. efficiency (typical) | 95 % |
| Own consumption with no load (standby) | 25 W (< 4 W) |
| Protection type | NEMA 1 |
| Certification | UL 1741 / UL 1998 |
| Device protection | short-circuit, overload, overtemperature |
| Interfaces | 2 LEDs, 4 buttons, 2-line display, 2 multifunction relays, RS485 / RS232 / CAN electrically separated (optional), MMC/SD card |
| Mechanical data | |
| Width / height / depth | 18.4 / 24.1 / 9.3 inch (467 / 612 / 235 mm) |
| Weight | 139 lbs (63 kg) |
| Ambient conditions | |
| Ambient temperature | -13 °F ... 122 °F (-25 °C ... +50 °C) |
| Warranty | 5 years |
| Accessories | |
| Ext. battery temperature sensor | included |
| "GenMan" generator manager | optional |

