

SUNNY ISLAND 5048U

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



SUNNY ISLAND 5048U

Battery-based inverter for off-grid and back-up applications

The new Sunny Island 5048U is the ideal solution for off-grid and grid back-up systems. It has incredible surge capability and a peak efficiency of 95% making it both powerful and cost efficient. The Sunny Island 5048U utilizes removable MMC/SD cards for storage of performance data by the integrated data logger and for easy firmware upgrades. Its new intuitive interface features preconfigured settings for faster commissioning. Wherever reliable, high quality electricity is needed, depend on the new Sunny Island 5048U to deliver.

Technical Data SUNNY ISLAND 5048U

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

