

- > Suitable for systems from 3 kW to 100 kW
- > AC coupling of all energy sources
- > Fully automatic uninterrupted operation
- > 1- and 3-phase operation, 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 5048

New Stand-alone Inverter for Hybrid Applications

The new Sunny Island 5048 features the following innovative product characteristics: ergonomic aluminum enclosure, maximum efficiency of 95 % and OptiCool active ventilation system. Thus, the Sunny Island 5048 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 5048

	SI 5048
Output data	
Nominal AC voltage (adjustable)	230 V (202 - 253 V)
Grid frequency adjustable	45 - 65 Hz
Continuous AC output at 25 °C / 45 °C	5000 / 4000 W
Continuous AC output at 25 °C for 30 / 5 / 1 min	6500 / 7200 / 8400 W
Nominal AC current	21.7 A
Max. current	100 A (for 100 ms)
Output voltage harmonic distortion factor	< 3 %
Power factor	-1 to +1
Input data	
Input voltage (range)	230 V (172.5 - 250 V)
Input frequency	40 - 70 Hz
Max. AC input current (adjustable)	56 A (2 - 56 A)
Max. input power	12.8 kW
Battery data	
Battery voltage (range)	48 V (41 - 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 (DIN EN 60529)	IP40
Certification	CE
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	467 / 612 / 235 mm
Weight	63 kg
Ambient conditions	
Ambient temperature	-25 °C ... +50 °C
Warranty (EU)	5 years
Accessories	
Ext. battery temperature sensor	included
"GenMan" generator manager	optional

