Sunny Island 5048



New Stand-alone Inverter for Hybrid Applications



Suitable for systems from 3 kW to 78 kW

AC coupling of all energy sources

Fully automatic uninterrupted operation

1- and 3-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

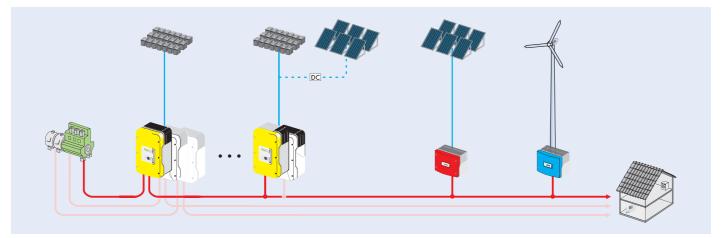
Robust, reliable and durable

Compatible with Sunny Family products

The new Sunny Island 5048 features the following innovative product characteristics: ergonomic aluminum enclosure, high efficiency 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 5 kW output power is ideal for use particularly in special climatic conditions. The intuitive interface facilitates installation and commissioning.





Schematic drawing of Sunny Island 5048

The long service life of over 20 years, and the possibility to gain a comfortable overview of system data with the aid of a removable data storage (MMC/SD card) and comprehensive technical support add to the list of advantages for the system operator. The Sunny Island 5048 coordinates stand-alone power supplies with outputs of up to 78 kW by allowing up to four devices to be connected in parallel on a single phase. With the ability to set up 3-phase grids and to manage generators for fuel saving operation, the Sunny Island 5048 is the perfect addition to the Sunny Island family.

Technical Data

		SI 5048
Output data Nominal AC voltage (adjustable) Grid frequency adjustable Continuous AC output at 25 °C / 45 °C Continuous AC output at 25 °C for 30 / 5 / 1 min Nominal AC current Max. current Output voltage harmonic distortion factor Power factor	UAC f Pnom P30 / 5 / 1 IAC, nom KVAC cos φ	230 V (202 - 253 V) 45 - 65 Hz 5000 / 4000 W 6500 / 7200 / 8400 W 21 A 100 A (for 100 ms) < 3 % -1 to +1
Input data Input voltage (range) Input frequency Max. AC input current (adjustable) Max. input power	U _{AC, ext} f _{ext} I _{AC, ext} P _{AC, ext}	230 V (172.5 - 250 V) 40 - 70 Hz 56 A (2 - 56 A) 12.8 kW
Battery data Battery voltage (range) Max. battery charging current Continuous charging current Battery capacity Charge control	U _{Bat} I _{Bat, max} I _{Bat, nom} C _{Bat}	48 V (41 - 63 V) 120 A 100 A 100 - 10000 Ah IU ₀ U with automatic full and equalization charge
Efficiency/power consumption Max. efficiency (typical) Own consumption with no load (standby)	η	95 % 25 W (< 4 W)
Protection type (DIN EN 60529)		IP40
Device protection		short-circuit, overload, overtemperature
Interfaces		2 LEDs, 4 buttons, 2-line display, 2 multifunction relays, RS485/RS232 electrically separated (optional), MMC/SD card
Mechanical data Width/height/depth (mm) Weight		467 / 612 / 235 63 kg
Ambient conditions Ambient temperature Warranty (EU)		-25 to +50°C 2 years
Accessories Ext. battery temperature sensor "GenMan" generator manager		included optional

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