

SUNNY ISLAND 4248-US

SI 4248U



Simple

- For systems from 2 to 5 kW
- AC and DC coupling
- Simple installation

Efficient

- High efficiency
- Excellent price-performance ratio

Durable

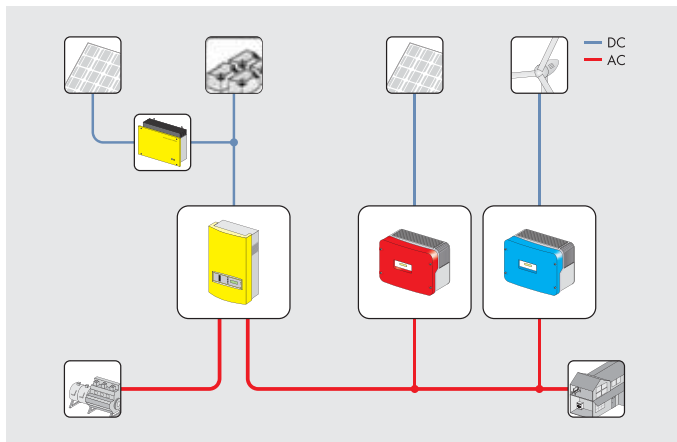
- Extreme overload capability
- 5-year warranty

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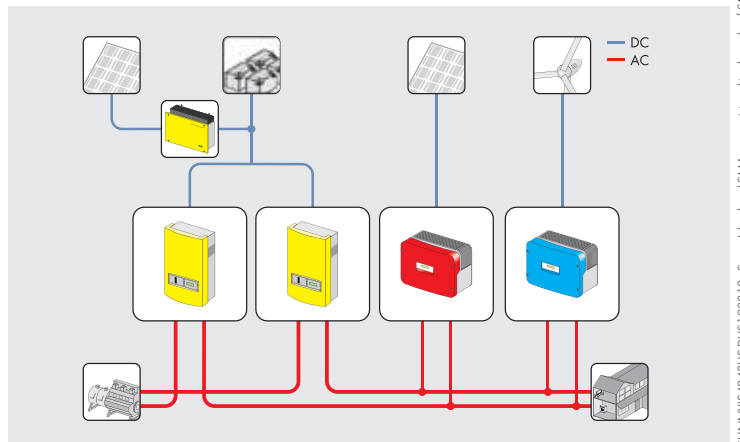
Making stand-alone grids easier than ever

Easy installation, safe operation and an outstanding price-performance ratio make the Sunny Island 4248-US battery inverter especially suitable for small and mid-sized stand-alone grids. Designed for countries with voltage systems compatible with the U.S. standard, the Sunny Island 4248-US guarantees a reliable and high-quality power supply. Due to its outstanding overload capabilities, and that it is designed to withstand high ambient temperatures, this inverter can be used under extreme weather conditions.

Technical data	Sunny Island 4248-US
AC output (loads)	
Nominal AC voltage (adjustable)	120 V (105 V - 132 V)
Nominal frequency (adjustable)	60 Hz (55 Hz - 65 Hz)
Continuous AC power at 25 °C / 45 °C (77 °F / 113 °F)	4200 W / 3400 W
AC output power at 25 °C (77 °F) for 30 min / 1 min / 3 s	5400 W / 7000 W / 11900 W
Nominal AC current / max. AC current (peak)	35 A / 140 A for 5 s
THD output voltage / power factor (cos φ)	< 3% / -1 to +1
AC input (generator or grid)	
AC input voltage (range)	120 V (80 V - 150 V)
AC input frequency (range)	60 Hz (54 Hz - 66 Hz)
Max. input current (adjustable) / Max. input power	56 A (2 - 56 A) / 6.7 kW
Battery DC input	
Battery voltage (range)	48 V (41 V - 63 V)
Max. battery charging current / continuous charging current at 25 °C (77 °F)	100 A / 80 A
Battery type / battery capacity (range)	lead / 100 - 6000 Ah
Charge control	IUoU process
Efficiency / operating consumption	
Max. efficiency	95%
Internal consumption with no load / standby	22 W / 4 W
Protection devices	
DC reverse polarity protection / DC fuse	●/●
AC short-circuit / AC overload	●/●
Overtemperature / excessive battery discharge	●/●
General data	
Dimensions (W / H / D) in mm (in)	390 / 590 / 245 (15 / 23 / 10)
Weight	39 kg (86 lb)
Operating temperature range	-25 °C ... +50 °C (-13 °F ... +122 °F)
Protection rating (according to IEC 60529)	indoors (NEMA 1)
Features / function	
Operation & display / multifunction relays	internal / 2
3-phase systems / parallel connection	-/-
Integrated bypass / multicluster operation	-/-
Charge level calculation / full- / equalization charge	-/●/●
Integrated soft start / generator support	●/-
Battery temperature sensor / communication cables	●/-
Warranty: 5 / 10 / 15 / 20 / 25 years	●/○/○/○/○
Certificates and permits	www.SMA-Solar.com
Accessories	
Battery cables / battery fuses	○/○
Interfaces (RS485 / Multicluster PB)	○/-
"GenMan" extended generator start	○
Load-shedding contactor / battery current measurement	○/-
<p>● Standard features ○ Optional features - Not available</p> <p>Last revision: May 2010</p> <p>Type designation</p>	
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Single-phase system



Split-phase system (only with Sunny Island 4248-US)

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