

SUNNY ISLAND 3324 / 4248 / 4248-US

SI 3324 / SI 4248 / SI 4248U



Simple

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

Efficient

- High efficiency
- Excellent price-performance ratio

Durable

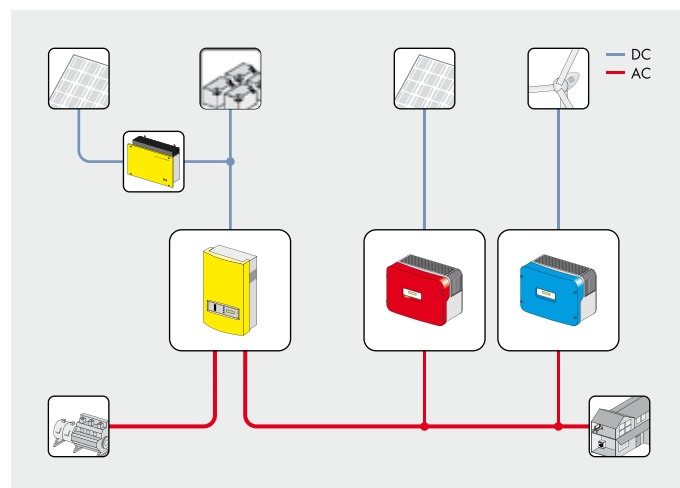
- Extreme overload capability
- 5-year SMA Warranty

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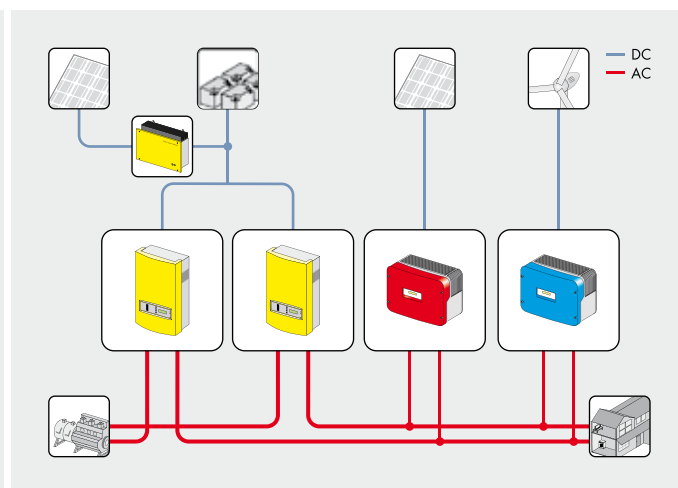
Stand-alone grids easier than ever

Easy installation, safe operation and outstanding price-performance ratio: the Sunny Island 3324 and 4248 battery inverters are especially suitable for use in small and mid-sized stand-alone grids. The Sunny Island 4248-US model is available for countries with voltage systems compatible with the U.S. standard. The devices guarantee a reliable and high-quality power supply. Due to their outstanding overload capabilities and the fact that they are designed to withstand high ambient temperatures, these devices can be used under extreme weather conditions.

Technical data	Sunny Island 3324	Sunny Island 4248	Sunny Island 4248-US
AC output (loads)			
Nominal AC voltage (adjustable)	230 V (202 V – 253 V)	230 V (202 V – 253 V)	120 V (105 V – 132 V)
Nominal frequency (adjustable)	50 Hz (45 Hz – 55 Hz)	50 Hz (45 Hz – 55 Hz)	60 Hz (55 Hz – 65 Hz)
Continuous AC power at 25 °C / 45 °C	3300 W / 2300 W	4200 W / 3400 W	4200 W / 3400 W
AC output power at 25 °C for 30 min / 1 min / 3 s	4200 / 5000 / 7300 W	5400 / 7000 / 11400 W	5400 / 7000 / 11900 W
Nominal AC current / max. AC current (peak)	14.5 A / 70 A for 100 ms	18 A / 100 A for 100 ms	35 A / 140 A for 5 s
THD output voltage / power factor (cos φ)	< 3 % / -1 to +1	< 3 % / -1 to +1	< 3 % / -1 to +1
AC input (generator or grid)			
AC input voltage (range)	230 V (172.5 V – 264.5 V)		120 V (80 V – 150 V)
AC input frequency (range)	50 Hz (40 Hz – 60 Hz)	50 Hz (40 Hz – 60 Hz)	60 Hz (54 Hz – 66 Hz)
Max. input current (adjustable) / Max. input power	56 A (2 – 56 A) / 12.8 kW	56 A (2 – 56 A) / 12.8 kW	56 A (2 – 56 A) / 6.7 kW
Battery DC input			
Battery voltage (range)	24 V (21 V – 32 V)	48 V (41 V – 63 V)	48 V (41 V – 63 V)
Max. battery charging current / continuous charging current at 25 °C	140 A / 104 A	100 A / 80 A	100 A / 80 A
Battery type / battery capacity (range)	lead / 100 – 6,000 Ah	lead / 100 – 6,000 Ah	lead / 100 – 6,000 Ah
Charge control	IUoU process	IUoU process	IUoU process
Efficiency / operating consumption			
Max. efficiency	94.5 %	95 %	95 %
Own consumption with no load / standby	22 W / 4 W	22 W / 4 W	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	390 / 590 / 245	390 / 590 / 245	390 / 590 / 245
Weight	39 kg	39 kg	39 kg
Operating temperature range	-25 °C ... +50 °C	-25 °C ... +50 °C	-25 °C ... +50 °C
Protection rating (according to IEC 60529)	indoors (IP30)	indoors (IP30)	indoors (NEMA 1)
Features / function			
Operation & display / multifunction relays	internal / 2	internal / 2	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	www.SMA-Solar.com	www.SMA-Solar.com
Accessories			
Battery cables / battery fuses	○/○	○/○	○/○
Interfaces (RS485 / Multicluster PB)	○/-	○/-	○/-
"GenMan" extended generator start	○	○	○
Load-shedding contactor / battery current measurement	○/-	○/-	○/-
● Standard features ○ Optional features – not available			
Last revision: May 2010			
Type designation	SI 3324	SI 4248	SI 4248U



Single-phase system



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