

# 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

# SUNNY ISLAND 4248-US

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
<b>AC output (loads)</b>		
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 ( $\cos \phi$ )		< 3% / -1 to +1
<b>AC input (generator or grid)</b>		
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
<b>Battery DC input</b>		
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
<b>Efficiency / operating consumption</b>		
Max. efficiency		95%
Internal consumption with no load / standby		22 W / 4 W
<b>Protection devices</b>		
DC reverse polarity protection / DC fuse		●/●
AC short-circuit / AC overload		●/●
Overtemperature / excessive battery discharge		●/●
<b>General data</b>		
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)
<b>Features / function</b>		
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		<a href="http://www.SMA-Solar.com">www.SMA-Solar.com</a>
<b>Accessories</b>		
Battery cables / battery fuses		○/○
Interfaces (RS485 / Multicluster PB)		○/-
"GenMan" extended generator start		○
Load-shedding contactor / battery current measurement		○/-

● Standard features ○ Optional features – Not available

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Type designation

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