

SUNNY ISLAND 3324 / 4248

SI 3324 / SI 4248



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

SUNNY ISLAND 3324 / 4248

Stand-alone grids easier than ever

Easy installation, safe operation and an 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 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 |
|--|----------------------------|----------------------------|
| AC output (loads) | | |
| Nominal AC voltage (adjustable) | 230 V (202 V - 253 V) | 230 V (202 V - 253 V) |
| Nominal AC frequency (adjustable) | 50 Hz (45 Hz - 55 Hz) | 50 Hz (45 Hz - 55 Hz) |
| Continuous AC power at 25 °C / 45 °C | 3300 W / 2300 W | 4200 W / 3400 W |
| AC power at 25 °C for 30 min / 1 min / 3 s | 4200 / 5000 / 7300 W | 5400 / 7000 / 11400 W |
| Nominal AC current / max. AC current (peak) | 14.5 A / 70 A for 100 ms | 18 A / 100 A for 100 ms |
| THD output voltage / power factor (cos φ) | < 3% / -1 to +1 | < 3% / -1 to +1 |
| AC input (PV array or grid) | | |
| AC input voltage (range) | 230 V (172.5 V - 264.5 V) | 230 V (172.5 V - 264.5 V) |
| AC input frequency (range) | 50 Hz (40 Hz - 60 Hz) | 50 Hz (40 Hz - 60 Hz) |
| Max. input current (adjustable) / max. input power | 56 A (2 - 56 A) / 12.8 kW | 56 A (2 - 56 A) / 12.8 kW |
| Battery DC input | | |
| Battery voltage (range) | 24 V (21 V - 32 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 |
| Battery type / battery capacity (range) | lead acid / 100 - 6,000 Ah | lead acid / 100 - 6,000 Ah |
| Charge control | IUoU process | IUoU process |
| Efficiency / self-consumption | | |
| Max. efficiency | 94.5% | 95% |
| Self-consumption without load / standby | 22 W / 4 W | 22 W / 4 W |
| Protective devices | | |
| DC reverse polarity protection / DC fuse | ●/● | ●/● |
| AC short-circuit / AC overload | ●/● | ●/● |
| Overtemperature / battery deep discharge | ●/● | ●/● |
| General Data | | |
| Dimensions (W / H / D) in mm | 390 / 590 / 245 | 390 / 590 / 245 |
| Weight | 39 kg | 39 kg |
| Operating temperature range | -25 °C ... +50 °C | -25 °C ... +50 °C |
| Degree of protection (according to IEC 60529) | Indoor installation (IP30) | Indoor installation (IP30) |
| Features / function | | |
| Operation and display / multifunction relay | internal / 2 | internal / 2 |
| Three-phase systems / parallel connection | -/- | -/- |
| Integrated bypass / multicluster operation | -/- | -/- |
| State of charge calculation / full-/equalization charge | -/●/● | -/●/● |
| Integrated soft start / generator support | ●/- | ●/- |
| Battery temperature sensor / data cables | ●/- | ●/- |
| Warranty (5 / 10 / 15 / 20 / 25 years) | ●/○/○/○/○ | ●/○/○/○/○ |
| Certificates and approvals | www.SMA-Solar.com | www.SMA-Solar.com |
| Accessories | | |
| Battery cables / battery fuses | ○/○ | ○/○ |
| Interfaces (RS485 / Multicluster PB) | ○/- | ○/- |
| "GenMan" extended PV array start | ○ | ○ |
| Load-shedding contactor / battery current measurement | ○/- | ○/- |
| ● Standard features ○ Optional features - not available | | |
| Last revision: May 2012 | | |
| Type designation | SI 3324 | SI 4248 |

