

SI 3324 / 4248 / 4248U

Simple

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

Efficient

- > High efficiency
- > Excellent price / performance ratio

Safe

- > Extreme overload capability
- > 5 year SMA warranty



SUNNY ISLAND 3324/4248/4248U

Stand-alone grids simpler than ever

The Sunny Island battery inverters, Sunny Island 3324 and Sunny Island 4248, are particularly suited for use in small-scale and medium-sized stand-alone grids. The Sunny Island 4248U model is available for countries with voltage systems according to US American standard. Energy sources such as solar power, wind energy and hydropower systems can be connected on both the AC side and the DC side. The devices guarantee a reliable, high-quality power supply, with extremely quiet operation. Due to their excellent overload characteristics and their design for high ambient temperatures, the Sunny Island 3324, Sunny Island 4248 and Sunny Island 4248U are suitable for use under extreme climatic conditions. Furthermore, they are very easy to install and have an excellent price/performance ratio.

Technical Data

SUNNY ISLAND 3324 / 4248 / 4248U

	SI 3324	SI 4248	SI 4248U
Output Values			
Nominal AC voltage (adjustable)	230 V (202 - 253 V)	230 V (202 - 253 V)	120 V (105 - 132 V)
Nominal frequency (adjustable)	50 Hz (45 - 55 Hz)	50 Hz (45 - 55 Hz)	60 Hz (55 - 65 Hz)
Continuous AC output at 25 °C / 45 °C	3300/2300 W	4200/3400 W	4200/3400 W
Continuous AC power at 25 °C for 30 / 5 / 1 min	4200/4400/5000 W	5400/6200/7000 W	5400/6200/7000 W
Nominal AC current	14.5 A	18 A	35 A
Max. current (peak value)	70 A (for 100 ms)	100 A (for 100 ms)	140 A (for 5 s)
Output voltage harmonic distortion factor	< 3 %	< 3 %	< 3 %
Power factor	-1 to +1	-1 to +1	-1 to +1
Input Values			
Input voltage	230 V (172.5 - 250 V)	230 V (172.5 - 250 V)	120 V (80 - 150 V)
Input frequency	50 Hz (40 - 60 Hz)	50 Hz (40 - 60 Hz)	60 Hz (54 - 66 Hz)
Max. AC input current	56 A (2 - 56 A)	56 A (2 - 56 A)	56 A (2 - 56 A)
Max. input power	12.8 kW	12.8 kW	6.7 kW
Battery data			
Battery voltage (range)	24 V (21 - 32 V)	48 V (41 - 63 V)	48 V (41 - 63 V)
Max. battery charging current	140 A	100 A	100 A
Continuous charging current	104 A	80 A	80 A
Battery capacity	100 - 6000 Ah	100 - 6000 Ah	100 - 6000 Ah
Charge control	IU ₀ U with automatic full and equalization charge	IU ₀ U with automatic full and equalization charge	IU ₀ U with automatic full and equalization charge
Efficiency / Power consumption			
Max. efficiency (typical)	94.5 %	95 %	95 %
Own consumption with no load (standby)	22 W (< 4 W)	22 W (< 4 W)	22 W (< 4 W)
Protection category per DIN EN 60529	IP30	IP30	IP30
Certificates and approvals	CE	CE	UL / ETL
Device protection	short-circuit, overload, overtemperature	short-circuit, overload, overtemperature	short-circuit, overload, overtemperature
Mechanical Data			
Width / height / depth (mm)	390 / 590 / 245	390 / 590 / 245	390 / 590 / 245
Weight	39 kg	39 kg	39 kg
Ambient Conditions			
Ambient temperature	-25 to +50 °C	-25 to +50 °C	-25 to +45 °C
Warranty (EU)	5 years	5 years	5 years
Accessories			
Ext. battery temperature sensor	included	included	included
"GenMan" generator manager	optional	optional	optional
„BatFuse“ battery connection box	optional	optional	optional

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