

SMA Sunny Island

Together with the battery unit, the stand-alone inverter Sunny Island creates a standard AC voltage grid into which all components, from electrical appliances to electricity generators, can be integrated. With AC coupling and the Sunny Island as its system manager, SMA has developed the technological solution for energy supply in remote areas, which are far away from the mains grid, or for emergency power supply in unstable grids.



SI 2012 & SI 2224

- For systems from 1 to 9kW
- Single and three phase operation, connectable in parallel and modularly extendible
- AC and DC coupling
- High efficiency
- Long battery service life



SI 3324 & SI 4248

- Suitable for 2 to 5.4kW systems
- AC and DC coupling of energy sources and loads
- Extreme overload capability
- Intelligent battery management for maximum battery service life
- Easy, quick installation



SI 5048

- Suitable for 3kW to 100kW systems
- AC and DC coupling of energy sources and loads
- 1-phase, 3-phase parallel connection possible
- Extreme overload capability
- Intelligent battery management for maximum battery service life
- System data acquisition via MMC/SD card
- Simple, intuitive interface

Model	SI 2012	SI 2224	SI 3324	SI 4248	SI 5048
Nominal AC voltage (adjustable)	230V (202 - 253V)				
Nominal frequency (adjustable)	50 Hz (45 – 65 Hz)		50Hz (45 - 55Hz)		50Hz (45 - 65Hz)
Cont. AC output at 25°C/ 45°C	2000 W / 1400 W	2200 W / 1600 W	3300/2300 W	4200/ 3400W	5000/ 4000W
Continuous AC output at 25°C for 30min/1min/3s	2500/3800/3900W	2900/ 3800/ 3900W	4200/ 5000/7300W	5400/7000/11400W	6500/8400/12000
Nominal AC current	8.7 A	9.6 A	14.5 A	18A	21.7A
Max current	25 A eff (3 s)		100A (for 100ms)		120A (for 60ms)
Input voltage	230V (172.5 -264.5V)				
Input frequency	50Hz (40 - 70Hz)		50Hz (40 - 60Hz)		50Hz (40 - 70Hz)
Max. AC input current	25 A		56A		
Max. input power	5.75 kW			12.8kW	
Battery voltage (range)	12 V (8.4 V – 15.6 V)	24 V (16.8 V – 31.5 V)	24V (21 - 32V)	48V (41 - 63V)	
Max battery charging current	180 A	90 A	140A	100A	120A
Continuous charging current	160 A	80 A	104 A	80A	100A
Max. efficiency (typical)	93%	93.6%	94.5%	95%	
Consumption with no load (stand by)	21 W (6W)	21 W (6W)	22W (<4W)	22W (<4W)	25W (<4W)
Protection rating	IP54		IP30		IP30
Width/ height/ depth in (mm)	470/ 445/ 185		390/ 590/ 245		467/ 612/ 235
Weight	19 kg		39kg		63kg
Ambient temperature	-25 to +60°C		-25 to +50°C		
Battery Capacity	100 - 10000 Ah		100 - 6000Ah		100 - 10000Ah

