

### Flexible

- > For systems starting with 1 kW up to 9 kW
- > 1- and 3-phase operation, connectable in parallel and modularly extendable
- > AC and DC coupling

### Simple

- > Simple installation
- > Complete off-grid management
- > Easy and remote configuration and monitoring with Sunny Remote Control

### Efficient

- > High efficiency
- > Long battery service life
- > Reliable state of charge evaluation

### Durable

- > For indoor and outdoor installation
- > Excellent overload performance
- > Wide temperature range



# SUNNY ISLAND 2012 / 2224

## Compact and powerful for small off-grid systems

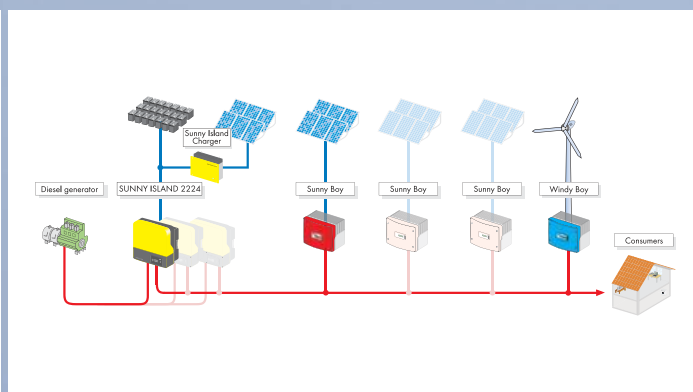
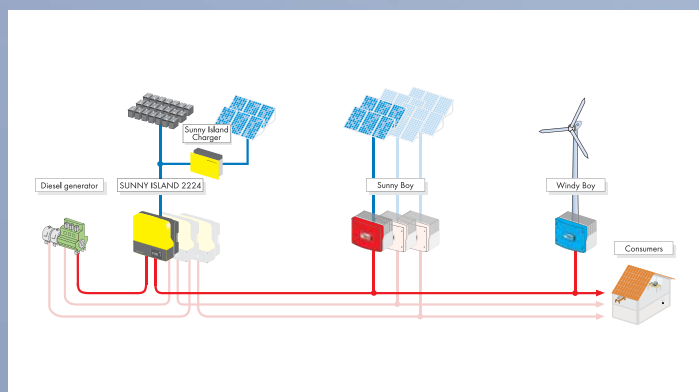
New Sunny Island products: the Sunny Island 2012 and 2224 extend the product range for the lower power sector. The new devices do not only include the well-known features from the big brother Sunny Island 5048. A lower weight and a reduced size make the new inverters even easier to handle and install. The high protection class IP54 and the Sunny Remote Control (SRC-1) give you full flexibility for the installation location. The integrated data storage and update feature via SD card result in additional user and service friendliness. Easy to use technology at its best: the unbeatable combination for off-grid systems up to 9 kilowatts.

# Technical Data

## SUNNY ISLAND 2012 / 2224

	SI 2012*	SI 2224
<b>Output data</b>		
Nominal AC voltage (adjustable)	230 V (202 V - 253 V)	230 V (202 V - 253 V)
Grid frequency (adjustable)	50 Hz / 60 Hz (45 Hz - 65 Hz)	50 Hz / 60 Hz (45 Hz - 65 Hz)
Continuous AC power at 25 °C / 45 °C	2000 W / 1400 W	2200 W / 1600 W
Continuous AC power at 25 °C for 30 / 5 / 1 min	2700 W / 3600 W / 3600 W	2900 W / 3800 W / 3800 W
Nominal AC current	8.7 A	9.6 A
Max. current (peak value)	25 A eff (3 s)	25 A eff (3 s)
Output voltage harmonic distortion factor	< 4 %	< 4 %
Power factor	-1 to +1	-1 to +1
<b>Input data</b>		
Input voltage (range)	230 V (172.5 V - 250 V)	230 V (172.5 V - 250 V)
Input frequency	50 Hz (40 Hz - 70 Hz)	50 Hz (40 Hz - 70 Hz)
Max. AC input current (adjustable)	25 A	25 A
Max. input power	5.75 kW	5.75 kW
<b>Battery data</b>		
Battery voltage (range)	12 V (10.2 V - 15.6 V)	24 V (16.8 V - 31.5 V)
Max. battery charging current	180 A	90 A
Continuous charging current	150 A	80 A
Battery capacity	100 - 10,000 Ah	100 - 10,000 Ah
Charge Control	IU <sub>0</sub> U with automatic full and equalization charge	IU <sub>0</sub> U with automatic full and equalization charge
<b>Efficiency / power consumption</b>		
Max. efficiency (typical)	93.0 %	93.6 %
Own consumption with no load (standby)	21 W (6 W)	21 W (6 W)
Protection rating (DIN EN 60529)	IP 54	IP 54
Certificates and approvals	CE	CE
Device protection	short-circuit, overload, overtemperature	short-circuit, overload, overtemperature
Interfaces	3 multicolor LEDs, 3 buttons, 2 multifunction relays, RS485 electrically separated (opt.)	3 multicolor LEDs, 3 buttons, 2 multifunction relays, RS485 electrically separated (opt.)
<b>Mechanical data</b>		
Width / height / depth (mm)	470 / 445 / 185	470 / 445 / 185
Weight	18 kg	18 kg
<b>Ambient conditions</b>		
Ambient temperature	-25 °C ... +60 °C	-25 °C ... +60 °C
Warranty (EU)	5 years	5 years
<b>Accessories</b>		
User interface (SRC-1)	optional (1 per System)	optional (1 per system)
Ext. battery temperature sensor	included	included
"GenMan" generator manager	optional	optional

\* preliminary information, dated April 2008



Website: [www.alphatrononline.com](http://www.alphatrononline.com)  
 Email: [sales@alphatrononline.com](mailto:sales@alphatrononline.com)  
 Australia Phone: 1800 148 793  
 New Zealand Phone: +64 9 414 5520

SMA Solar Technology AG