### SUNNY ISLAND 6.0H / 8.0H





#### **Simple**

- OptiUse: fast installation and commissioning, simplified operation
- OptiBat: state of charge calculation keeps you informed at all time

#### **Robust**

- IP 54: optimal protection from dust and humidity
- OptiCool: greater temperature range
- OptiPower: secure operation in any situation

#### **Flexible**

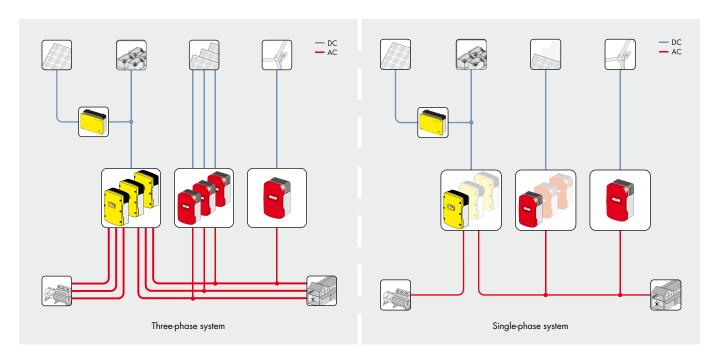
- For systems from 3 to 300 kW
- Precise system design
- Supports Multicluster Technology

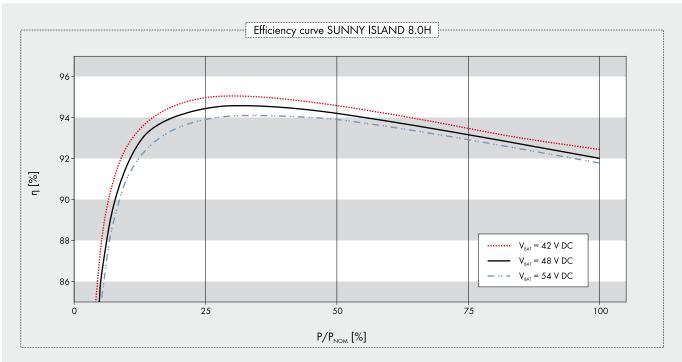
## SUNNY ISLAND 6.0H / 8.0H

Simple. Robust. Flexible.

More robust than its predecessors: The new Sunny Island impresses with its high protection class and wide temperature range. Moisture, dust and temperature fluctuations won't impair its operation, even after 20 years. Thanks to OptiCool, there's no need to compromise when it comes to overload capacity and profitability. And there's more: OptiPower, the intelligent load and energy management system, ensures operation even in critical situations. OptiUse makes installation, commissioning and daily use easier than ever with automatic rotary field detection, an optimized quick configuration guide and intuitive operation. And the OptiBat battery management system automatically controls the most important charging and discharging procedures, which extends the service life of sensitive energy storage. Sunny Island is a truly comprehensive package for a worry-free, reliable and self-sufficient electricity supply.

# **SUNNY ISLAND 6.0H / 8.0H**





Technical data	Sunny Island 6.0H	Sunny Island 8.0H
AC output (loads / stand-alone grid)		
Rated line voltage / AC voltage range	230 V / 202 V 253 V	230 V / 202 V 253 V
Rated frequency / frequency range (adjustable)	50 Hz / 45 Hz 65 Hz	50 Hz / 45 Hz 65 Hz
Rated power (for Unom, fnom $/ 25  ^{\circ}\text{C} / \cos \varphi = 1$ )	4600 W	6000 W
AC power at 25 °C for 30 min / 5 min / 3 sec	6000 W / 6800 W / 11000 W	8000 W / 9100 W / 11000 W
Rated current / maximum output current (peak)	20 A / 120 A	26 A / 120 A
Total harmonic distortion output voltage / power factor with rated power	< 4 % / -1 +1	< 4 % / -1 +1
AC input (PV array, grid or MC-Box)	14 /0 / -1 11	14 /0 / -1 11
• • •	0201//170.51/ 0//.51/	020 // 170 5 // 0/ 4 5 //
Rated input voltage / AC input voltage range	230 V / 172.5 V 264.5 V	230 V / 172.5 V 264.5 V
Rated input frequency / allowable input frequency range	50 Hz / 40 Hz 70 Hz	50 Hz / 40 Hz 70 Hz
Maximum AC input current / adjustable	50 A	50 A
Maximum AC input power	11500 W	11500 W
Battery DC input		
Rated input voltage / DC voltage range	48 V / 41 V 63 V	48 V / 41 V 63 V
Maximum battery charging current / DC rated charging current	110 A / 100 A	140 A / 115 A
Battery type / battery capacity (range)	FLA, VRLA / 100 Ah 10 000 Ah	FLA, VRLA / 100 Ah 10 000 A
Charge control	IUoU charging process with automatic	
Charge control	full and equalization charge	full and equalization charge
Efficiency / self-consumption	ion and equalization charge	ion and equalization charge
Maximum efficiency	95 %	95 %
•		
Self-consumption without load / standby	< 26 W / < 4 W	< 26 W / < 4 W
Protective device (equipment)		
AC short circuit / AC overload	• / •	• / •
DC reverse polarity protection / DC fuse	-/-	-/-
Overtemperature / battery deep discharge	● / ●	• / •
Overvoltage category as per IEC 60664-1	ill	íII
General data		
	467 mm x 612 mm x 242 mm	467 mm x 612 mm x 242 mm
Dimensions (width x height x depth)		
Weight	63 kg	63 kg
Operating temperature range	-25°C +60 °C	-25°C +60 °C
Protection class according to IEC 62103	I	I
Climatic category according to IEC 60721	3K6	3K6
Degree of protection according to IEC 60529	IP54	IP54
Features / function		
Operation and display / multifunction relay	external with SRC-20 / 2	external with SRC-20 / 2
	·	·
3-phase systems / parallel connection	• / •	• / •
Integrated bypass / multicluster operation	-/•	-/•
State of charge calculation / full charge / equalization charge	● / ● / ●	•/•/•
Integrated soft start / generator support	• / •	• / •
Battery temperature sensor / communication cables	● / ●	● / ●
Certificates and approvals	www.SMA-Solar.com	www.SMA-Solar.com
Warranty (5 / 10 / 15 / 20 / 25 years)	•/0/0/0/0	•/0/0/0/0
Accessories		
Battery cable / battery fuse	0/0	0/0
		•
Interface SI-COMSMA (RS485) / SI-SYSCAN (Multicluster)	0/0	0/0
Extended generator start "GenMan"	0	0
Load-shedding contector / battery current measurement	0/0	0/0
Type designation	SI6.0H-10	SI 8.0H-10
• Standard features 0 Optional features — not available		

## **SMA OFF-GRID CONFIGURATOR**

Design and simulation program for off-grid systems

