

## MC-BOXES for SI 5048

### Everything included

- > AC distribution
- > Fuses for the SI 5048
- > Generator contactor
- > Load shedding contactor
- > Connection for PV system

### Flexible

- > 3 different sizes from 30 up to 110 kW
- > Different generator, PV and load sizes

### Reliable

- > Active anti-islanding
- > Reverse current monitoring
- > Simple emergency operation of the generator
- > Robust due to high enclosure rating IP65
- > 5-year SMA Warranty



# MULTICLUSTER-BOXES

## Easy Design of Island and Hybrid Systems

Install large off-grid systems with minimum efforts: the new Multicuster-Boxes for the Sunny Island 5048 are the ideal solution for the easy installation of island and hybrid systems from 30 up to 110 kW. Two up to four 3-phase clusters each consisting of 3 Sunny Islands are connected in parallel. The Multicuster-Box is specially designed for this task as AC distribution with integrated generator and load shedding contactor. We made the installation as easy as possible for you: all wiring is ready for operation and the Multicuster-Boxes are equipped with a main connection for PV or wind energy systems for the desired power range. The communication cables necessary for the installation are all included in delivery.

# Technical Data

## Multicluste-Boxes for Sunny Island 5048

	MC-BOX-6	MC-BOX-9	MC-BOX-12
<b>General</b>			
Number of phases	3-phase	3-phase	3-phase
Nominal voltage	3 x 230 V / 400 V	3 x 230 V / 400 V	3 x 230 V / 400 V
Voltage range	172.5 - 250 V / 300 - 433 V	172.5 - 250 V / 300 - 433 V	172.5 - 250 V / 300 - 433 V
Nominal frequency (range)	50 Hz (40 - 70 Hz)	50 Hz (40 - 70 Hz)	50 Hz (40 - 70 Hz)
Size (width / height / depth)	760 / 760 / 210 mm	1000 / 1200 / 300 mm	1000 / 1400 / 300 mm
Mounting type	hanging	standing on base	standing on base
Weight	approx. 55 kg	approx. 90 kg	approx. 110 kg
<b>Connection for Sunny Island</b>			
Quantity	6	9	12
Continuous AC output at 25 °C	30 kW	45 kW	60 kW
AC output for 30 min. / 1 min.	40 kW / 50 kW	60 kW / 75 kW	80 kW / 100 kW
Nominal AC current at 25 °C	3 x 44 A	3 x 65 A	3 x 87 A
<b>Connection for PV system</b>			
Quantity	1 x 3-phase	1 x 3-phase	1 x 3-phase
Nominal AC power / AC current	55 kW / 3 x 80 A	86 kW / 3 x 125 A	110 kW / 3 x 160 A
<b>Connection for the loads</b>			
Quantity	1 x 3-phase	1 x 3-phase	1 x 3-phase
Nominal power / current	55 kW / 3 x 80 A	86 kW / 3 x 125 A	110 kW / 3 x 160 A
<b>Connection for generator</b>			
Quantity	1 x 3-phase	1 x 3-phase	1 x 3-phase
Nominal power / current	55 kW / 3 x 80 A	86 kW / 3 x 125 A	110 kW / 3 x 160 A
<b>Ambient conditions</b>			
Ambient temperature	-25 °C ... +50 °C	-25 °C ... +50 °C	-25 °C ... +50 °C
Enclosure rating (DIN EN 60529)	IP 65	IP 65	IP 65
<b>Accessories</b>			
Communication cable	4 x 5 m FTP Cat 5e	4 x 5 m FTP Cat 5e	4 x 5 m FTP Cat 5e
Multicluste-Piggy-Back	optional	optional	optional

