

# MULTICLUSTER BOXES FOR SUNNY ISLAND



## Flexible

- Three different power classes, from 20 kW to 300 kW
- Different generators, PV and load magnitudes

## Simple

- Integrated AC distribution for Sunny Island, generator, PV
- Integrated load-shedding contactor

## Safe

- Automatic bypass for the PV generator
- Active Anti-Islanding
- Reverse current monitoring

## Robust

- High protection class IP65 (MC-Box-6.3-11)
- High protection class IP54 (MC-Box-12.3 / MC-Box-36.3-11)
- 5-year SMA warranty

## Multiccluster Boxes for SUNNY ISLAND

For easy set-up of stand-alone and hybrid systems

The power of the AC main distribution unit for Sunny Island systems has been increased by 20 %. This allows off-grid and hybrid systems in the power ranges of 20 to 300 kW to be implemented even more cost-effectively. The specific costs for the overall system are being reduced thanks to a maximum PV output of 360 kW and the flexible design capability of the Sunny Island 6.0H / 8.0H. Based on proven technology, 2 to 12 three-phase clusters, each consisting of 3 Sunny Island inverters, can be connected in parallel. To simplify installation, all Multiccluster Boxes are completely wired and fitted at the factory and have a main connector for generators, the load distribution and PV or wind turbine systems. All data cables required for the installation are included in the delivery. With the Multiccluster solution for Sunny Island, you really have thought of everything. Even complex energy supply solutions are easy to implement.





# SMA Off-Grid Configurator

Design and simulation program for off-grid systems



## Welcome

SMA Off-Grid Configurator is a valuable tool to design and analyze Off-Grid systems.

To navigate through the program, use the arrows or icons on top of the screen. Error messages, warnings and tips are shown in the lower bar at the bottom of the screen. A summary of your design selections is displayed in the Project Status section on the right-hand side.

1. Project Data: Determine your project data and select climate data from a database.
2. Consumption: Define the AC-Grid and your consumption.
3. PV-Modules: Select a module from the database. Layout the array or define the number of modules directly.
4. Configuration of the PV-System: Let the program calculate an optimum system configuration or enter a system configuration directly.
5. Back-Up Generator: Select a Back-Up Generator and set its controls.
6. Sunny Island and Battery: Determine the optimal configuration of Battery-Inverters and Batteries.
7. Simulation: Simulate the system you designed and display the results.
8. Financial Analysis: Enter the costs for purchasing and running your system.
9. Results: The results are shown graphically and can be printed as a customer presentation.

## Messages