

Mercedes-Benz Energy Storage Home

Recommended procedure for setting up the SMA inverter

Target group

Qualified electricians (see the Mercedes-Benz Energy Storage Home Gen.1.5 manual for a definition of the target group)

Inverter types

SMA Sunny Island 3.0M	SMA Sunny Island 6.0H
SMA Sunny Island 4.4M	SMA Sunny Island 8.0H



Make sure that all connected energy storage modules are running the same software version before starting up the Mercedes-Benz Energy Storage Home. Refer to the rating plate of each energy storage module under 'SW_{Version}' to find out this information. Contact customer service at Deutsche ACCUMOTIVE GmbH & Co. KG if you discover that there are differing software versions.



Consult the installation manuals of the specific SMA Sunny Island components in use.

We recommend using the following procedure to set up the Mercedes-Benz Energy Storage Home and SMA Sunny Island inverter when using it for the first time.

1. Starting the system

- (1) Switch the ON/OFF switch on the Mercedes-Benz Energy Storage Home to the ON position.
- (2) Wait 30 seconds (90 seconds, max.).
- (3) Switch on the SMA Sunny Island inverter.
- (4) Launch 'Quick Configuration Guide' on the Sunny Island Remote Control.
- (5) Configure the following parameters:

Menu item	Setting
Dt	Current date
Tm	Current time
AppSel	OnGrid
BaTyp	Li Ion_Ext-BMS
BatCapNom	No. of the energy storage modules x 50 Ah
SysFncSel	SelfconsOnly
ClstType	1 Phs
EZAType	Selection depending on connection type (see SMA inverter installation manual)
MsPhSel	Selection depending on connection type (see SMA inverter installation manual)

- (6) Confirm 'SetupNewBattery.'
- (7) Start the inverter on the SMA Sunny Island Control.
 - The system is operational.

2. Setting operating parameters

- (1) Switch to 'Expert mode' on the SMA Sunny Island Remote Control.
- (2) Configure the following parameters:

Menu item	Setting
261#03 Saisonenable	Yes
262#01 ProtResSOC	3%
262#02 BatrESSOC	2%
262#03 BUResSOC	0%
262#04 PVResSOC	5%
262#05 MinSlfCsmplSOC	70%

3. Data capture

Customer service will need to know specific information about your Mercedes-Benz Energy Storage Home in order to quickly resolve any problems that arise. This data is captured for the purposes of troubleshooting and will not be passed on to third parties.

- (1) Make sure that an SD card has been inserted into the SMA Sunny Island Remote Control.
- (2) Switch to 'Expert mode' on the SMA Sunny Island Remote Control.
- (3) Under the '550#03 CardFunc' menu item, switch the setting to 'StoHis.'
 - The system is initialized.

4. Manually charging the Mercedes-Benz Energy Storage Home

We recommend manually charging the energy storage modules before using them for the first time in order to ensure that the lithium-ion cells are optimally initialized.

- (1) Switch to 'Expert mode' on the SMA Sunny Island Remote Control.
- (2) Under the '261#01 SlfCsmplnc' menu item, switch the setting to 'disable.'
- (3) Charge the storage system to around 75–80% SoC.
- (4) Once reaching 75–80% SoC, switch back to 'enable' under the '261#01 slfCsmplnc' menu item.
- (5) Switch the SMA Sunny Island inverter to 'Standby' mode.
- (6) Leave the energy storage system in 'Standby' mode for 24 hours.
- (7) Switch on the SMA Sunny Island inverter again (see no. 3.1 for instructions).
 - The system is initialized.

5. Switching on the inverter (end customer)



Provide the end customer with specific instructions on switching on the SMA inverter.

Explain the following operating steps to the end customer by showing him physically how to do them:

- (1) Switch on the SMA inverter by pressing the 'ON' button.
- (2) Press the button on the SMA Sunny Remote Control when 'Start inverter' appears on the display.
- (3) Hold the button depressed until the start bar is completely filled.
 - The system is initialized.