Check List - Replacement of Battery Modules

SMA Home Storage

HS-BM-3.28-10

1 Contact person at the installation site

First and last name: Cell

Phone/telephone number:

E-mail:

2 System Overview

Battery type:	HS-BM-3.28-10
Total number of installed battery modules:	
Serial numbers of all installed battery modules:	
Serial number of the defective battery module:	
Inverter device type:	Selesct device type
Serial number of the inverter:	
Case number:	

3 Installation of the Battery

Question	Yes	No	Comment
1. Do the installation and installation site comply with the locally applicable fire safety regulations?	☐	☐	
2. Was the battery grounded acc. to the operating manual?	☐	☐	
3. Does the battery grounding have the same potential as the inverter grounding?	☐	☐	
4. Were the battery modules installed in accordance with the operating manual?	☐	☐	
5. Were the DC+ and DC- cables correctly connected to all battery modules?	☐	☐	
6. Were the DC+ and DC- cables correctly connected to the inverter's DC terminal?	☐	☐	
7. Is the entire serial DC wiring between all modules correctly installed?	☐	☐	
8. **Only for systems with Sunny Tripower Smart Energy:** Was the preconfigured battery communication cable used and installed in accordance with the operating manual?	☐	☐	

Question	Yes	No	Note
9. **Only for systems with Sunny Tripower Smart Energy:** Only applicable if the battery communication cable was manufactured by the installer: Was the battery communication cable manufactured by the installer connected in accordance with the technical information "SUNNY TRIPOWER SMART ENERGY – Approved Batteries and Information on Battery Communication Connection?"	☐	☐	
10. **Only for systems with Sunny Boy Smart Energy:** Was the communication wiring between the inverter and the battery carried out in accordance with the operating manual??	☐	☐	

4 Firmware Versions

Inverter firmware version:

Firmware versions of all battery modules:

5 LED Indicators of all Battery Modules

Serial numbers of all battery modules	LED color	LED signal
	Red	Select LED signal
	Green	Select LED signal
	Blue	Select LED signal
	Red	Select LED signal
	Green	Select LED signal
	Blue	Select LED signal
	Red	Select LED signal
	Green	Select LED signal
	Blue	Select LED signal
	Red	Select LED signal
	Green	Select LED signal
	Blue	Select LED signal
	Red	Select LED signal
	Green	Select LED signal
	Blue	Select LED signal

6 Observations on-site

Quest	Yes	No	Value or comment
1. What voltage is measured directly at the DC terminals of the affected module 45 seconds after the DC switch has been turned on?			
2. Are the DC circuit breakers of the battery modules and the inverter's DC switch closed?	☐	☐	
3. Are all batteries correctly detected based on their serial numbers and the displayed energy in kWh?	☐	☐	
4. What is the instantaneous battery voltage value shown on the inverter's user interface under **Battery voltage?**	☐	☐	
5. What is the instantaneous battery temperature shown on the inverter's user interface under **Battery temperature**?	☐	☐	
6. Check whether any battery modules are visibly damaged (e.g., due to enclosure damage).	☐	☐	
7. Are the surfaces of the battery modules hot?	☐	☐	
8. Are event messages related to the battery state (event number: 93xx) displayed on the inverter's user interface?	☐	☐	
9. Does the battery's DC switch trip? If so, how many seconds after switching on?	☐	☐	

7 Actions on-site

Question	Yes	No	Comment
1. Have battery modules been replaced?	☐	☐	
2. Have APU assemblies been replaced?	☐	☐	
3. Was emergency charging applied?	☐	☐	

8 Document the System Status

1. Export the inverter's event messages and save the file together with this list (see the inverter operating manual).
2. Export the data stored in the inverter and save the file together with this list (see the inverter operating manual).
3. Document the current condition of the installed battery modules using photographs and store the photos together with this list.