



This report must be completed for each first commissioning of an SMA Commercial Storage Solution.

This report applies to 1 battery inverter STPSxx-20. If there are several battery inverters in the system, complete 1 commissioning report per battery inverter.

**i Storing the commissioning report**

- Store the report with the system after commissioning.
- Provide the report to Service in the event of service or warranty claims.

**i Commissioning instructions**

Prerequisite for the commissioning is the successful participation in a certification training program for the SMA Commercial Storage Solution.

- All work must only be carried out in accordance with the product documentation.
- All safety information must be observed.

**Project data:**

Customer/project name:		Ticket/case number:	
Contact person on-site:		Cell phone/telephone number:	
Street:		E-mail:	
ZIP code, city:			

**Battery:**

Battery type:		Total capacity of battery (kWh)	
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**Operating modes/application:**

Peak shaving		Multi-use	
Increased self-consumption		Time-of-use	
Other			
<input type="text"/>			

**Battery inverter and accessories**

Component	Type:	Serial number:	Firmware:	Fixed IP address: (if assigned)
<b>Battery inverter:</b>	Click here for selection			
<b>SMA Data Manager:</b>	Select type			
<b>Energy meters:</b>	Click here for selection			
<b>DC distribution board</b>	Optional			

**Serial numbers for the battery system:**

Battery cabinet 1:	Serial number:
Battery management system 1:	
BMS firmware:	
Battery module 1.1	
Battery module 1.2	
Battery module 1.3	
Battery module 1.4	
Battery module 1.5	
Battery module 1.6	
Battery module 1.7	
Battery module 1.8	
Battery module 1.9	
Battery module 1.10	

Battery cabinet 2:	Serial number:
Battery management system 2:	
BMS firmware:	
Battery module 2.1	
Battery module 2.2	
Battery module 2.3	
Battery module 2.4	
Battery module 2.5	
Battery module 2.6	
Battery module 2.7	
Battery module 2.8	
Battery module 2.9	
Battery module 2.10	

Battery cabinet 3:	Serial number:
Battery management system 3:	
BMS firmware:	
Battery module 3.1	
Battery module 3.2	
Battery module 3.3	
Battery module 3.4	
Battery module 3.5	
Battery module 3.6	
Battery module 3.7	
Battery module 3.8	
Battery module 3.9	
Battery module 3.10	

Battery cabinet 4:	Serial number:
Battery management system 4:	
BMS firmware:	
Battery module 4.1	
Battery module 4.2	
Battery module 4.3	
Battery module 4.4	
Battery module 4.5	
Battery module 4.6	
Battery module 4.7	
Battery module 4.8	
Battery module 4.9	
Battery module 4.10	

### Design of the battery cabinet

Step	Description	✓	✗	Comment
1	Battery cabinet finally positioned and attached to the wall according to the quick reference guide or system manual			
2	Grounding established with the central grounding point of the cabinet (8 Nm)			
3	Cage nuts positioned for attaching the battery management and battery modules			
4	Type labels affixed in clearly visible spots, installation date and name of the installer entered			

### Installation of the components

Step	Description	✓	✗	Comment
5	Battery management system connected to the grounding			
6	4-pole connector for the E-STOP connection on the battery management system plugged in			
7	All battery modules inserted and attached (3 Nm)			
8	Shock sensors tested on the battery modules			
9	Communication cable from the battery management system ( <b>BAT COM</b> ) to the first battery module ( <b>COMM IN</b> ) plugged in.			
10	Communication cables of the remaining battery modules plugged in (always from <b>COMM OUT</b> to <b>COMM IN</b> ).			
11	The first battery module (red on red) and the last battery module (black on black) connected with the battery management system according to the quick reference guide or system manual			
12	Connect the battery modules in series with the DC connecting lines according to the quick reference guide or system manual			
13	All locking levers on the DC lines are locked			
14	In systems with more than 1 battery cabinet: address set and terminator and plugged in on the battery management system of each battery cabinet.			
15	External switch of the battery cabinet connected to the battery management system			
16	<b>LAN</b> socket of the battery management system connected with network switch LAN 2 or with socket <b>BAT ETH</b> of the STPSxx-20 Notice: communication cables must be routed separately from the power cables.			
17	DC cables from the battery inverter or DC distribution board correctly plugged in and locked on the <b>CHARGER+</b> and <b>CHARGER-</b> terminals of the battery management system Notice: polarity must be correct.			
18	DC cables from the battery inverter or DC distribution board attached on the pre-mounted cable retainer			

### Installation and connection of the periphery

19	Communication network set up according to the quick reference guide or system manual Notice: communication cables must be routed separately from the power cables.			
20	Converter-measurement for energy meter connected and configured implemented and configured			
21	Energy meter: plausibility and measured values checked and confirmed			
22	External temperature and humidity sensor installed and adjusted according to the quick reference guide or system manual; data recording started			

### Commissioning

23	External switch on the battery cabinet and On-Off button of the battery management system ( <b>SWITCH</b> ) operated: Battery management system becomes active In systems with more than 1 battery cabinet: switch on secondary battery cabinets in reverse order, primary battery cabinet at the end			
24	Correct number of battery modules confirmed In systems with more than 1 battery cabinet: correct number of battery cabinets confirmed			
25	In the battery management system display the status <b>INIT</b> is shown The statuses <b>PRECH.</b> and <b>OK</b> follow when the battery inverter is supplied with AC voltage.			
26	Battery voltage and temperature on the display of the battery management system checked			
27	Connection between battery management system and BatMon software established. Displays at system and module level checked and recorded			
28	AC fuse inserted and connected (fuse must be designed for the maximum output current of the STPSxx-20 of 75.5 A per line conductor)			
29	STPSxx.20 commissioned according to the system manual			

# Commissioning report SMA Commercial Storage



Commissioning has been successfully completed:



Comment:

By entering the date and adding their signature, the responsible electrically qualified person confirms that commissioning has been carried out in accordance with the system manual and the instructions for the individual system components. This document has been fully completed. Furthermore, the responsible electrically qualified person confirms that they have successfully taken part in a certification training course for the SMA Commercial Storage Solution.

Of course, all data collected is subject to the SMA data protection guidelines and will be treated as strictly confidential.

Place, Date

Name of technician

Signature

**Please keep this document in a safe place; it will be needed in case of service.**