

Short Instruction

Connection of the neoSystem Type 4-5 to SMA products



CHARGING THE FUTURE.


LITHIUM-ION-BATTERY SYSTEMS
FOR THE STATIONARY STORAGE
OF RENEWABLE ENERGY

Instruction

This document applies to battery storages of version 2.0 and higher and complements the *Operation & installation manual – neoSystem 48 V* with the battery inverter specific installation and configuration steps.

This document is designed to assist you with the practical realization of the installation process. The instruction does not replace the inverter manufacturer's manual, which has to be observed and complied under all circumstances.

Safety note

	<p>Fire Hazard</p> <p>Incorrect connection of the battery or usage of a non-approved inverter may cause fire.</p>
---	--

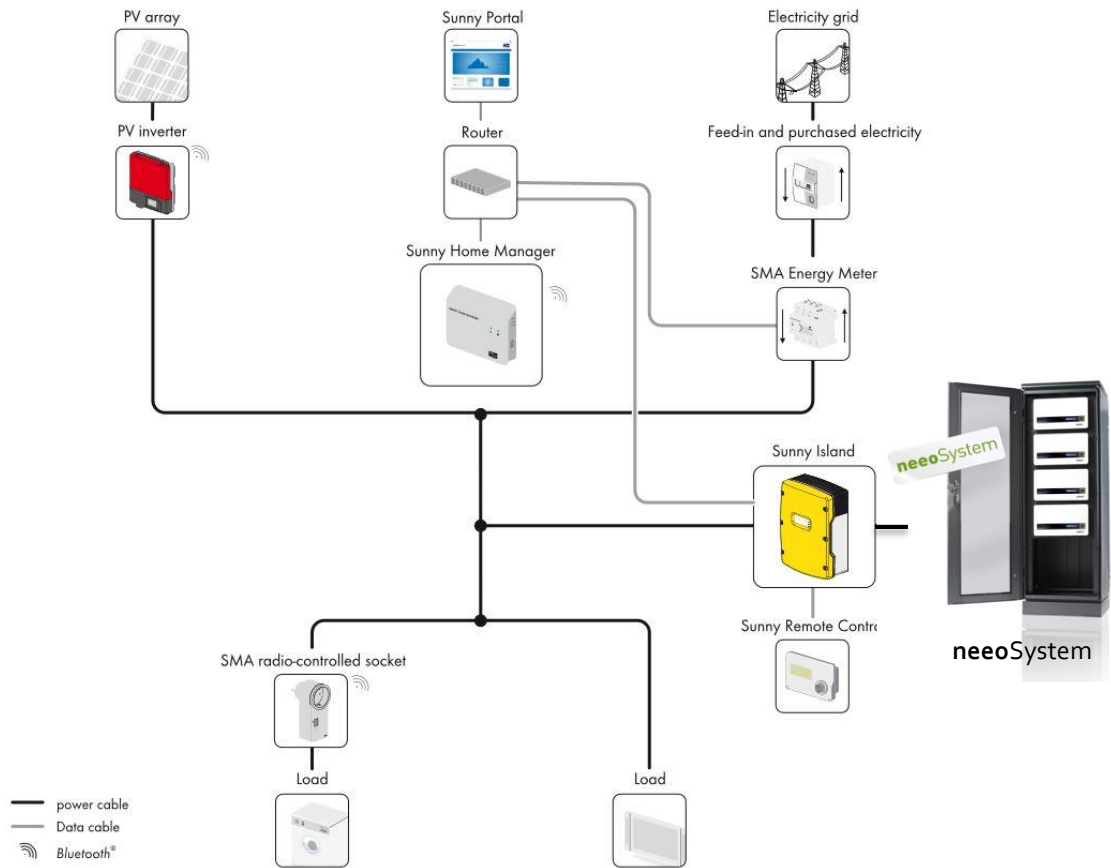
Please make sure that you use one of the following inverters:

MANUFACTURER	TYPE	This list is continually updated. Further inverter types can be found on our website www.akasol.com
SMA SOLAR Technology AG	SI 6.oH	
SMA SOLAR Technology AG	SI 8.oH	

Useful installation and planning tools can be found on the inverter manufacturer's website. We recommend the following SMA documents:

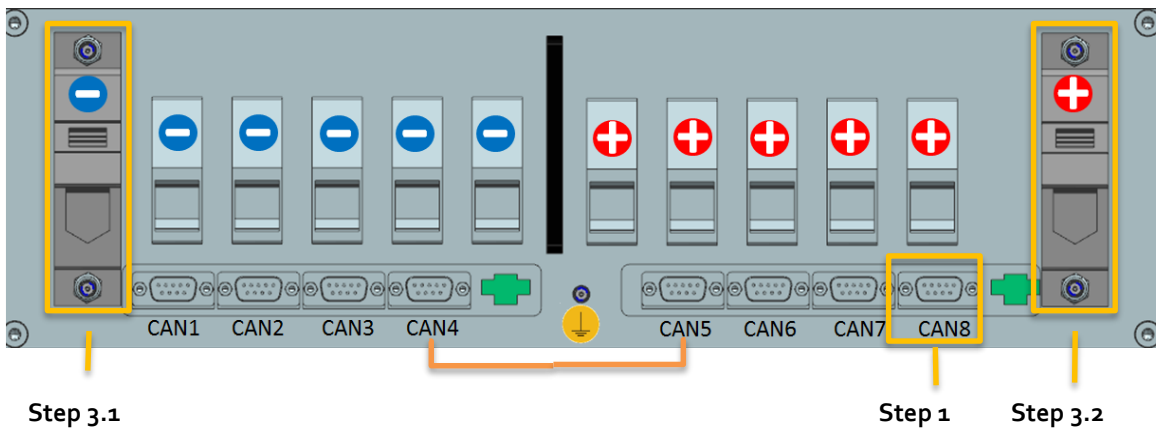
- Increased self-consumption SUNNY ISLAND / SUNNY HOME MANAGER
- Planning Guidelines
- FAQs: SUNNY ISLAND for increased self-consumption

INSTALLATION OVERVIEW



SMA: System for changing the load profile with intermediate storage of energy (Source: SMA)

GETTING STARTED



Step 1 – Communication connections between battery and inverter

Connect the D-SUB-to-RJ45-Adapter to „CAN 8“ using the included adapter cable set (5 m) with the communication port on the inverter. See also installation manual of the inverter.

Step 2 – Grounding

Insert the grounding of the system chassis according to the instructions *Operation & Installation – neoSystem 48 V*, chapter *Electrical connections – Grounding*.

Step 3 – Connection of the external DC-power cables

Connect the power cables from inverter to the external DC terminals. First connect the negative terminal block (Step 3.1) to inverter then continue with the positive terminal block of the inverter (Step 3.2) to the external DC block. Apply 15 Nm torque to the terminal screws; see also installation instructions for the SMA-battery inverter and manual *Operation & Installation – neoRack 48 V*, chapter *Electrical Connection – Wiring of the DC power connections „External +“ and „External -“*.

Step 4 – Starting the battery system

You can now switch on the battery. Proceed as described in manual *Operation & Installation – neoSystem 48 V*, chapter *Basics of Operation and commissioning*.

Step 5 – Inverter Settings

Before first start up, you should familiarize yourself with the *Quick Configuration Guide (QCG)* which can be found in the operating instructions of your SMA inverter. Immediately after the power-up of the system several buttons have to be pressed to configure the system for the first time.

Use the following setting parameters for the neoSystem on your SMA battery inverter:

	Name	Parameter
Values to be set during initialization	003.07 BatTyp	Lilon_Ext-BMS
	003.10 BatCpyNom	424 Ah / 530 Ah (depending on type)
	261.01 SlfCsmpIncEna	Enable
	261.03 Saisonenable	No
	262.01 ProtResSOC	3
	262.02 BatResSOC	3
	262.03 BUResSOC	0
	262.04 PVResSOC	4
	262.05 MinSlfCsmpSOC	90

After completing the SMA QCG steps, the battery system sends all necessary parameters.

MANUFACTURER'S CONTACT ADDRESS

If you have any questions or would like to report faults, we are happy to help. Please contact us and have the following information ready:

- Type of the **neo** product family (e.g. **neoSystem** Type 4)
- Serial number
- Fault message as shown in the display

Technical service

Tel.: +49 6151 800500-802
Mail: service@akasol.com

Sales

Tel.: +49 6151 800500-801
Mail: vertrieb@akasol.com

AKASOL GmbH
Landwehrstraße 55
D-64293 Darmstadt

Tel.: +49 6151 800500
Fax: +49 6151 800500-129

info@akasol.com
www.akasol.com

PRODUCT REGISTRATION & WARRANTY

When you register your **neoSystem** with AKASOL, you can activate the 10-year warranty for your product.

You can carry out the registration online via the AKASOL website:
www.akasol.com/speicher-erneuerbare-energien/produktregistrierung

© 2015 AKASOL GmbH. All rights reserved.