

Application note - How to setup the communication between Sigen EV AC Charger and Sigenergy inverters

Revision History

Version 1.0, June 2024 - Initial release



This document provides an overview of possible solutions to setup the communication between Sigen EV AC Charger and Sigenergy inverters before customers plan to charge using PV boost energy. This document covers the following products.

Sigen EV AC Charger models	Sigenergy Inverters models
Sigen EVAC Charger series	SigenStor EC series Sigen Hybrid series Sigen PV Max series

Setup the electrical connection

Please ensure the correct electrical connection when installing or setup the products including connecting the FE cable from the Sigen EV AC charger to the Sigenergy inverter etc. Contact your installer when any problems occur.



Scenario #1 - Sigen EVAC and Sigenergy Inverter are connected directly with the Ethernet cable

In this scenario, connected Sigen EVAC to Sigenergy Inverter directly using Ethernet cable when this connection is available.



A. PV panel
B. SigenStor EC/ Sigen Hybrid
C. SigenStor BAT
D. Distribution panel
E. Home loads
F. Sigen EV AC Charger
G. Power Sensor
H. Power grid
I. mySigen
J. Router



Scenario #2 - Sigen EVAC and Sigenergy Inverter are connected to the same Router with the Ethernet cable

In this scenario, connected Sigen EVAC to the same router which Sigenergy Inverter is connected to. Using Ethernet cable when this connection is available.



B. SigenStor EC/ Sigen Hybrid A. PV panel C. SigenStor BAT

I. mySigen

- D. Distribution panel
- E. Home loads

J. Router

F. Sigen EV AC Charger

- G. Power Sensor
- H. Power grid



N. Antenna

Scenario #3 - Sigen EVAC is connected to Gateway directly with Ethernet cable

In this scenario, connected Sigen EVAC to Sigenergy Gateway directly using Ethernet cable. Sigenergy Inverter is connected to Internet with Ethernet cable, WLAN or CommMod which is described as above.



A. Solar panel	B. SigenStor EC/ Sigen Hybrid		C. SigenStor BAT	
D. Diesel generator	E. Smart load	F. Gateway	G1. Backup home loads	
Hl. Backup power distribution panel		G2. Non-backup home loads		
H2. Non-backup power distribution panel		I. Power Sensor		
J. Sigen EV AC Charger	K. Power grid	L. mySigen	F. Router	

O. CommMod



Scenario #4 - Sigen EVAC and Sigenergy Inverter is connected directly with Ethernet cable, Sigenergy Inverter connected to Internet with WLAN or Sigen CommMod

In this scenario, connected Sigen EVAC to Sigenergy Inverter directly using Ethernet cable. But the system is connected to Internet with WLAN or CommMod (wireless method).



- K. Antenna
- L. CommMod



Update the firmware

Please update the firmware of both Sigen EV AC charger and Sigenergy inverter to the latest version. To guarantee the correct operation of solar charging, please ensure your APP is version 1.9.4 or newer.

1. App installer account operation

1.1 For new Sigen EV AC charger as connected in Scenario #1~3, please update the firmware of EVAC as in following steps (Pictures below may be varied depending on different version).





Scan the QR code of Sigen EVAC Charger









Confirm and finish



1.2 For new Sigen EV AC charger as connected in Scenario #4, please update the firmware of EVAC as in following steps(Pictures below may be varied depending on different version).





Scan the QR code of Sigen EVAC Charger











2. App user account operation

2.1 For Sigen EV AC charger is already for use, please update the firmware of EVAC as in the following steps (Pictures below may be varied depending on different version).







Combining Sigen EVAC to Sigenergy Inverter System

Please ensure the firmware of both Sigen EV AC charger and Sigenergy inverter is updated to the newest version. To guarantee the correct operation of solar charging, please ensure your APP is version 1.9.4 or higher.

Tips

- The screen for creating new systems differs slightly between PV charging and PV storage & charging networking, but the operations are the same. The illustrations here are for reference only. The actual screen display shall prevail.
- Before creating new systems, please check that Sigen EVAC is connected to our inverter with the Fast Ethernet network cable.

1. App installer account operation

1.1 Creating New Systems in Both Sigen EVAC and Other Devices







Scan the QR code of Sigen EVAC Charger







Manually locate the address, set the Timezone, and enter Owner Details.



Perform upgrades where necessary.



Set parameters as needed. Rated Household Circuit Breaker Current > Input Circuit Breaker Current > Default Output Charging Current





To modify the parameter values you set before, click on to confirm the modification and create new systems



1.2 Adding Sigen EVAC to an Existing Power Station











Output Charging Current



2. App user account operation

Please follow the below step to combine Sigen EV AC Charger and Sigenergy Inverter.









1	← Post-Sales Service	
(0	-3
	Para	meters
	Grld Code EGC_GEN_US	~
		use
	Ground type TN	~
	Rated Household Circuit Breaker Current (. 50	۵)
	Input Circuit Breaker Current (A) 45	
	Next	
Se Ra Ci	t parameters as needed. Ited Household Circuit Brea Irrent	ker
-> II	nnu circuit Breaker Curren	

> Default Output Charging Current



Disclaimer. The information on this file is provided on an "as is" basis. To the fullest extent permitted by law, Sigenergy Technology Co., Ltd. excludes all representations and warranties relating to this file and its contents or which is or may be provided by any affiliates or any other third party, including in relation to any inaccuracies or omissions in this file.