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INSTALLATION, OPERATION & MAINTENANCE MANUAL OF SMILE-G3-EVCT11



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01 Introduction

1.1 Safety and Warning

1) Keep explosive or flammable materials, chemicals, vapors, and other hazardous objects away from the charger.

2) Keep the charging socket clean and dry. If it is dirty, please wipe it with a clean and dry cloth. Touching the socket core when the power is on is strictly forbid-den.

3) Do not use the charger if the device has defects, cracks, abrasions, bare leakage, or any similar issues. Please contact the working staff if any of these conditions occur.

4) Do not attempt to disassemble, repair, or modify the charger. If necessary, please contact the working staff. The improper operation could result in device damage, electric leakage, etc.

5) If any abnormal condition happens, please press the emergency stop button immediately and cut off all input and output power supply.

6) Please charge cautiously in rainy or lightning weather.

7) Keep the charger away from children to avoid injury.

8) Driving an EV during charging is strictly forbidden. Charge the EV only when it is stationary. Charge hybrid electric vehicles only when the engine is switched off.

! Warning

The input and output voltages of this device are dangerously high and can pose a threat to human life. Please strictly observe all warn-ings and operating instructions on the device and in the manual. Un-authorized and non-professional service personnel should not re-move the cover of this device. **1.2 Scope of Delivery**

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Check the scope of delivery and inspect components to ensure they are present and undamaged. Contact your distributor if the packed components are incomplete or

SMILE-G3-EVCT11					
	Arton Distance				
EV Charger (x1)	Installation, operation & Maintenance Manual (x1)	M6*40 Screw (x4)			
		\$ ~ \$ ~ \$ ~			
Wall bracket (x1)	Wrench (x1)	Terminal block (x5)			
AC Connector (x1)	Terminal Resistor (x2)	RFID Card (x2)			

1.3 Liability Limitation

AlphaESS will not assume any direct or indirect liability for any product damage or property loss caused by the following conditions:

- Product modification, design changes, or parts replacement without AlphaESS's authorization;
- Changes or attempted repairs, and erasing of series number or seals by unauthorized technicians;

• The product wiring and installation are not in compliance with standards and regulations;

- Failure to comply with the local safety regulations;
- Transport damage (including painting scratch caused by rubbing inside packaging during shipping). A claim should be made directly to the shipping or insurance company as s
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as the container/packaging is unloaded and such damage is identified;

• Failure to follow any/all of the user manual, installation guide, and maintenance regulations;

- Improper use or misuse of the device;
- Insufficient ventilation of the device;
- The product maintenance procedures have not been in compliance with an acceptable standard;
- Force majeure (violent or stormy weather, lightning, overvoltage, fire, etc.);

1.4 Product Overview







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2 Mounting

2.1 Package Verification

After receiving the charger, please unpack and check the following items:

• Inspect the external appearance and notify the seller immediately if there is any damage.

• Check the accessory type and quantity. If the quantity and/or type is incorrect, record it

2.2 Installation Preparation

2.2.1 Tools

Tool Name	Photo Function		
Multimeter		Check the electrical connection and electrical parameter	
Cross Screwdriver (PH2x150mm, PH3x250mm)	ross Screwdriver PH2x150mm, PH3x250mm)		
Insulated Torque Wrench		Tighten the bolts	
Electric Drill		Drill holes in the wall	
Diagonal Pliers		Cut cables	

2.2.2 Cables & Materials

Name	Specification	Quantity		
Power supply cable	5*6mm ² three-phase power supply cable	Depends on the actual requirement		

2.3 AC Charger Mounting

2.3.1 Mounting the EV Charger



The steps to mount the AC Charger are listed below:

- 1. Find a flat space on the wall.
- 2. Use the wall bracket to mark 4 points on the wall.
- 3. Drill 4 holes with an 8mm diameter drill bit and insert the 4 M6*40 expansion pipes horizontally into the holes. Make sure the screws are fully inserted and the holes are around 40mm deep.



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- 4. Secure the wall bracket to the wall with 4 M6x40 screws. (The EV Charger shall be mounted vertically.)
- 5. Hang the EV charger on the wall bracket.
- 6. Secure the EV charger with 2 M4*10 screws and complete the installation.



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03 Electrical Connection

3.1 Installation Notice

a) The electrical device should only be installed, operated, serviced, and maintained by qualified personnel. The manufacturer assumes no responsibility for any consequences arising from the use of this device. A qualified person should have the necessary skills and knowledge related to the construction, installation and operation of electrical devices and have received safety training to recognize and avoid associated hazards.

b) All applicable local, regional, and national regulations must be respected when installing, repairing and maintaining this device.

c) The communication cable between the EV charger and the energy storage system should not exceed a maximum length of 100m.

3.2 System Wiring Diagram

To combine with the AlphaESS energy storage system, the EV charger should be installed as the diagram below.



NOTE: The EV charger should be installed behind the grid meter.

If you have installed a Backup Box, the EV charger should be installed as the diagram below.



NOTE: The EV charger should be installed between the grid meter and the backup box. The backup box does not support access to communication of ESS temporarily.

3.3 Overview of the Connection Area

3.3.1 EV Charger Appearance



Front side view

Bottom side view

LED Indicator Instruction				
State Description		LED Status		
In Standby	Normal Flashing green, 1s on, 3s off			
Charging status	Is Normal Breathing green, 1s on, 1s off Dg e Normal Breathing yellow, 1s on, 1s off			
Plugged charging connector state				
Software upgrade	rade Normal Flashing white, 200ms on, 1s off, 5 tim then 3s off. The cycle repeats.			
Ground warning	Normal	Flashing yellow, 2s on, 2s off		
Relay adhesion	Fault	Red light normally on		
For details, please refer to 5.1	r details, e refer to 5.1 Fault Flashing red			

3.4 AC Wiring

1. Remove a length of 43mm of the cable jacket and strip the wire insulation to a length of 10mm.



2. Crimp the terminals as shown in the figure below.



3. The wiring is shown in the figure below.



3.1 Unlock instructions



AC Charger

RS485 PIN

4 5

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3.5 Communication Connection

The communication between the EV Charger and EMS of the energy storage system is RS485.

RJ45 PIN definition is as below:

EV AC Charger – SMILE-G3-EVCT11					
RJ45 PIN4 PIN5					
RS485	RS485-B	RS485-A			

ESS- SMILE-HV Series					
RJ45 PIN4 PIN5					
RS485	RS485-B	RS485-A			
ESS- SMILE-G3 Series					
RJ45	PIN4	PIN5			
RS485	RS485-B	RS485-A			

3.5.1 Communication Connection with SMILE-HV Series

SMILE-HV Series

RS485 PIN



3.5.2 Communication Connection with SMILE-G3 Series



4 System Configuration and Operation

4.1 Configuration

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To integrate the EV charger with the energy storage system, please ask the installer to enter the serial number of the EV Charger on the server.

•	Storage Sy	stem Maintenance			English V	2
B	Install EV-Charger					
+			Install EV-Charger	×		
ß			Charging pile type			
÷	serial Number	Charging pile SN	Select	√ installatic	on date operate	
	1		* System SN	2023-05-2	20 unbind	
	2			2023-05-1	II unbind	
•	3		* SN check code	2023-05-1	10 unbind	
ţ.	4		* Charging pile SN	2023-05-0	99 unbind	
B	5		4	2023-05-0	38 unbind	
0	6		* installation date	2023-05-0	16 unbind	
	7		*	2023-04-2	26 unbind	
ĉ	8		cancel	Save 2023-04-2	24 unbind	
12						

< System Information	ion Po	wer Diagram	Statistical Diagram	Profit Diagram	System Setup	Upgrade management
						Save
Basic Information						>
Inverter Information						>
Battery Information						>
Meter Information						>
Software Information						>
Electricity Tariff Inform	ation					>
Charging / Dischargin	g Setting					>
EV-Charger						>
Generator Control						>
Backup Box						>
AUX Contact Settings						>
Other Information						>
			Please click save aft	er finishing editing)	

After configuration, please select the relevant SN of the EV charger and enter the current limit of each phase of the house.

SYSTEM CONFIGURATION AND OPERATION

4.2 Setup on the AlphaCloud and App

After configuration, the end user can monitor and set up the EV charger on the AlphaCloud and App.

We have three charging strategies: Manual Setting, Timed Charging, Plug and Play. Each strategy has four charging modes to choose from:

- 1. Green charge-slow charge
- 2. Green charge-general charge
- 3. Green charge-quick charge

/!

4. Specific power charge mode

NOTE: Regardless of the chosen charging strategy, the charging mode depends on what you have chosen.

EV-Charger						Household current setup(A)	32
Household current setup 1000		А				Charging mode	
EV-charger SN SN001						• Green charge	
EV-charger Status Abr	normal					Slow charge	•
Charging strategy setup	limed Charging					Specify the charging power mode	
Time Period1			22.50			EV-charger SN	
Charles and	Manual Setting	-	23:39		•		
Charging mode	Timed Charging			 Specify the charg 	ing power mode 🍟	OBC (On-Board Charger) phase selection	
د	Plug and Play		A/Gruppe			Three-phase	•
C Time Period2 2	!3:15	~ <u>-</u>	23:30	\sim		Charging strategy setup	
Charging mode	Green charge			• Specify the charg	ing power mode ¹	EV-Charger activation	€
Char	raina Current Settina	5	A/Gruppe			Priority	
	5					1	•
	+ N	lew Time Peri	iod			Timed Charging Period 1	
	Charge	Now	Stop			14:30 • 14:45	•
		NOW				Timed Charging Period 2	
							-
						Control permissions available	

4.2.1 Manual Setting

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To charge the electric vehicle immediately, please click the "start" button or use the RFID card after setting up the charging mode.

To stop the EV charger from charging, please click the "stop" button.

4.2.2 Timed Charging

You can also set two charging time periods for the EV charger.

EV-ch	arger Status	Abnormal			
Charging st	rategy setup	Timed Charging	\sim		
۲ 🔽	ime Period1	00:00	\sim	- 23:59	~
Cha	arging mode	Green charge ⁰		~	• Specify the charging power mode
		Charging Current Setting	16	A/Gruppe	
ı 🗆	'ime Period2	00:00	\sim	- 00:00	~
Cha	arging mode	Green charge		~	• Specify the charging power mode
		Charging Current Setting	6	A/Gruppe	
		4	- New Time P	eriod	
		Cha	irge Now	Stop	

4.2.3 Plug and Play Strategy

When the "Plug and Play" strategy is selected, the EV charger will start charging as soon as the connecter is plugged in, and stop charging when the connecter is unplugged. There is no need to swipe a card or control through AlphaCloud & App. In this function, the Charging mode and the phase of OBC are needed to be set.

EV-charger Status	Abnormal			
Charging strategy setup	Plug and Play	^	0	
Charging mode	Manual Setting		~	
(Plug and Play			

4.2.4 Charging Mode Instruction



NOTE: To start the EV charger, the current of each phase should not be less than 6A.

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4.2.4.1 Green Charge – Slow Charge



The EV charging source is only PV.

If PV power is available, it will prioritize supplying other loads, then charge the battery of ESS, and then supply the EV charger. Any excess power will be fed back into the grid. Max. EV charging power P_EVmax=P_pv-P_load-P_bat

NOTE: If the on-board charger (OBC) on the electric vehicle is three-phase, Insufficient PV may not activate the EV charger in this mode.

4.2.4.2 Green Charge – General Charge



--- EV source PRIORITY: A. PV B. Batteries of ESS

----- Battery supply PRIORITY: I. Other Loads II. EV Charger

The EV charging source is PV and batteries.

If PV power is available, it will prioritize supplying other loads, then supply the EV charger and maximize the EV charging power, and then charge the batteries of the ESS. Any excess power will be fed back into the grid.

The battery will be used for other loads and then for the EV charger.

Max. EV charging power P_EVmax=P_pv-P_load+P_bat



4.2.4.3 Green Charge – Quick Charge



The PV and battery power will supply the EV charger first.

If PV power is available, it will prioritize supplying the EV charger, then supply other loads, and then charge the battery of ESS. Any excess power will be fed back into the grid.

The battery will be used for the EV charger and then for other loads. Max. EV charging power P EVmax=P pv +P bat



NOTE: If the electric vehicle's on-board charger (OBC) is three-phase, insufficient PV may not activate the EV charger in this mode.

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4.2.4.4 Specific Power Charge Mode



The EV charger will charge the electric vehicle with specified power. The PV and ESS system will supply the EV charger first. If the power is not enough, the grid will supply the EV charger simultaneously.

This specified power value can be set by yourself within a range of 6A to 16A per phase, and the default value is the AC rated current value (16A per phase).

If PV power is available, it will prioritize supplying the EV charger and other loads, and then charge the battery of ESS. Any excess power will be fed back into the grid.

EV-charger Stat	us Abnormal				
Charging strategy set	up Manual Setting	~			
Charging mo	de 🕥 Green charge 🏮		\checkmark	• Specify the charging power mode	0
	Charging Current Setting	16	A/Gruppe		
	Cha	rge Now	Stop		

4.2.4.5 Mode Option Suggestion

AC Output Power from AlphaESS Energy Storage System & PV Inverter	<51	«Wp	5~10	kWp	>10	kWp
On-Board Charger of Vehicle	Single Phase	Three Phase	Single Phase	Three Phase	Single Phase	Three Phase
Green Charge-Slow	\checkmark		\checkmark		\checkmark	\checkmark
Green Charge-Normal	\checkmark		√	\checkmark	\checkmark	\checkmark
Green Charge-Quick	\checkmark	\checkmark	√	\checkmark	\checkmark	\checkmark
Max. Power Charge	√	√	√	\checkmark	√	√

Please refer to the actual situation of the customer's home loads.

4.2.5 Smart Mode Function

Smart Mode is available when the charging mode is "Green Charge" mode and OBC is three-phase.

When the "Smart mode" is enabled:

If the real setting power is less than the minimum allowable power of three-phase, the phase of OBC will change to single-phase.

Once the real setting power is more than the minimum allowable power of three-phase, the phase of OBC will switch back to three-phase.

EV-Charger priority	1	~ 0		
OBC(On-Board Charger)phase	Three-phase	~		
selection				
Smart Mode On	θ			
Control permissions available	0			
* When then	e is a conflict of chargin	g modes during the same	time period, the system will execut	te

4.3 Start and Stop Charging

There are three ways to Start and Stop Charging.

- 1. Click the "start" or "stop" button on AlphaCloud or the App.
- 2. Swipe the RFID card.
- 3. Plug and play when the "Plug and play" strategy is enabled.

05 Troubleshooting

5.1 Indicator State

State	Description	LED Status
In the standby	Normal	Flashing green, 1s on, 3s off
Charging status	Normal	Breathing green, 1s on, 1s off
Plugged gun state	Normal	Breathing yellow, 1s on, 1s off
Software upgrade	Normal	Flashing white, 200ms on, 1s off, 5 times, then 3s off. The cycle repeats.
Ground warning	Normal	Flashing yellow, 2s on, 2s off
Relay adhesion	Fault	Red light normally on
Input polarity reverse	Fault	Flashing red, 500ms on, 500ms off, 4 times, then 3s off. The cycle repeats.
CP fault	Fault	Flashing red, 500ms on, 500ms off, 2 times, then 3s off. The cycle repeats.
Leakage current fault	Fault	Flashing red, 500ms on, 500ms off, 1 time, then 3s off. The cycle repeats.
Input terminal overtemperature	Fault	Flashing red, 500ms on, 500ms off, 6 times, then 3s off. The cycle repeats.
Relay overtemperature	Fault	Flashing red, 500ms on, 500ms off, 7 times, then 3s off. The cycle repeats.
Under voltage fault	Fault	Yellow light on for 2s. Flashing Red, 500ms on, 500ms off, 1 time, then 3s off. The cycle repeats.
Over voltage fault	Fault	Yellow light on for 2s. Flashing Red, 500ms on, 500ms off, 1 time, then 3s off. The cycle repeats.
Overload fault	Fault	Flashing red, 500ms on, 500ms off, 8 times, then 3s off. The cycle repeats.
Over frequency fault	Fault	Yellow light on for 2s. Flashing Red, 500ms on, 500ms off, 2 times, then 3s off. The cycle repeats.
Owe frequency fault	Fault	Yellow light on for 2s. Flashing Red, 500ms on, 500ms off, 2 times, then 3s off. The cycle repeats.
Leakage current loop abnormal	Fault	Flashing red, 500ms on, 500ms off, 11 times, then 3s off. The cycle repeats.

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5.2 Fault Code

Error Code	Problems	Possible Causes	Solutions
	Input over		1. Check the input voltage from the backend.
OverVolt	voltage	may be too high.	2. If the voltage is over 276Vac for a short time, wait till the power grid recovers to the normal voltage range.
	Input lower		1. Check the input voltage from the backend.
UnderVolt	voltage	may be too low.	2. If the voltage is under 184Vac for a short time, wait till the power grid recovers to the normal voltage range.
OverCurr	Output	The AC output current	1. Shut off the leakage current protection switch of the power distribution cabinet immediately.
	overload	may be too large.	2. Check whether there is a low resistance connection between the AC output cables of the charger.
			1. Check the input voltage frequency from the backend.
OverFreq	Input over frequency	AC input frequency may be too high.	2. If the frequency exceeds 63Hz for a short time, wait till the power grid recovers to the normal voltage range.
			1. Check the input voltage frequency from the backend.
UnderFreq	Input lower frequency	AC input frequency may be too low.	2. If the frequency is lower than 47Hz for a short time, wait till the power grid recovers to the normal voltage range.
OverTemp	Over temperature	The temperature may be too low inside the charger.	1. Check the surrounding conditions of the installed chargers for the presence of any heating devices nearby. Make sure the environmental temperature is under 60 °C.
	Over leakage	The leakage current	1. Shut off the leakage current protection switch of the power distribution cabinet immediately.
	current	to the earth may be too high.	2. Check whether there are broken AC output cables or a low resistance connection to the earth.

Error Code	Problems	Possible Causes	Solutions
PhaseError	Reverse	Reverse connection	1. Shut off the leakage current protection switch of the power distribution cabinet immediately.
Thaselino	connection	of L/N input cable.	2. Check if AC input/output cables are normal and if the inverse connection of L/N input cables.
CableRCError	Charging cable connection abnormal	Poor connection of charging cable with EV/Charger.	1. Check if the charging cable connection is correct and firm.
			1. Check if the communication cable connection is correct and firm.
Charging pile	Communication	Poor connection of	2. Check whether the communication cable sequence is
No. 1 lose	cable connection abnormal	charging cable with EV/Charger.	3. Check whether the charging pile address is set correctly.
			4. Check whether the installation number of charging piles is set correctly.
			1. Check if the communication cable connection is correct and firm.
	Communication	Poor connection of	2. Check whether the communication cable sequence is
Charging pile No. 2 lose	cable connection abnormal	charging cable with EV/Charger.	3. Check whether the charging pile address is set correctly.
			4. Check whether the installation number of charging piles is set correctly.
			1. Check if the communication cable connection is correct and firm.
Charging pile	Communication	Poor connection of	2. Check whether the communication cable sequence is
No. 3 lose	cable connection abnormal	charging cable with EV/Charger.	3. Check whether the charging pile address is set correctly.
			4. Check whether the installation number of charging piles is set correctly.

Error Code	Problems	Possible Causes	Solutions
			1. Check if the communication cable connection is correct and firm.
Charging pile No. 4 lose	Communication cable connection abnormal	Poor connection of charging cable with EV/Charger.	 2. Check whether the communication cable sequence is correct. 3. Check whether the charging pile address is set correctly.
			4. Check whether the installation number of charging piles is set correctly.



If the above problems cannot be resolved, please contact the seller.

06 Specification Parameter

Model	SMILE-EVCT11
Basic Parameters	
Dimension (H x W x D)	340 x 250 x 142 mm
Weight	3 kg
Operating Temperature	-30 ~ 50 °C
Related Humility	15 ~ 90%
Operating Altitude	< 2000 m
Warranty	2 Years Product Warranty
Input	
AC Rated Voltage	400 V, 3P+N+PE
Rated Current	16 A
Frequency	50/60 Hz
Output	
Output AC Output Voltage	400 V
Output AC Output Voltage Max. Current	400 V 16 A
Output AC Output Voltage Max. Current Rated Power	400 V 16 A 11000 W
Output AC Output Voltage Max. Current Rated Power Interface	400 V 16 A 11000 W
Output AC Output Voltage Max. Current Rated Power Interface Charger Connector	400 V 16 A 11000 W Type 2 Socket
Output AC Output Voltage Max. Current Rated Power Interface Charger Connector Cable Length	400 V 16 A 11000 W Type 2 Socket External 7 m Type 2 - Type 2 Charging Cable
OutputAC Output VoltageMax. CurrentRated PowerInterfaceCharger ConnectorCable LengthCommunication	400 V 16 A 11000 W Type 2 Socket External 7 m Type 2 - Type 2 Charging Cable
OutputAC Output VoltageMax. CurrentRated PowerInterfaceCharger ConnectorCable LengthCommunicationWiFi	400 V 16 A 11000 W Type 2 Socket External 7 m Type 2 - Type 2 Charging Cable AP Mode Settings
OutputAC Output VoltageMax. CurrentRated PowerInterfaceCharger ConnectorCable LengthCommunicationWiFiEMS	400 V 16 A 11000 W Type 2 Socket External 7 m Type 2 - Type 2 Charging Cable AP Mode Settings RS485
OutputAC Output VoltageMax. CurrentRated PowerInterfaceCharger ConnectorCable LengthCommunicationWiFiEMSProtection	400 V 16 A 11000 W Type 2 Socket External 7 m Type 2 - Type 2 Charging Cable AP Mode Settings RS485
OutputAC Output VoltageMax. CurrentRated PowerInterfaceCharger ConnectorCable LengthCommunicationWiFiEMSProtectionRCD	400 V 16 A 11000 W Type 2 Socket External 7 m Type 2 - Type 2 Charging Cable AP Mode Settings RS485 6 mA DC