



SMILE-G3-S5-INV / SMILE-GS3.6-INV / SMILE-G3-B5-INV



Dimension: W×H×D=483×366×190.4mm

## 2. Accessories, Additional Material and Tools

#### 2.1 Scope of Delivery



Optional (for connection to SMILE-G3-BAT-3.8S) Optional

#### 2.2 Additional Installation Materials Required



#### 2.3 Installation Tools



#### 3. Installing the Inverter

3.1 Before installing the inverter, please ensure that the battery is properly installed

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### 4.3 Connecting the Backup Power Cable



#### 4.4 Connecting the BAT Power Cable



#### 3.2 Installing the Inverter



#### **Electric Shock Hazard**

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PH2×150mm

1 Housing

4 PE Cable

2.5Nm

M5 terminal lug with

2 protective conductor

3 M5×12 PH2 head screv

#### 4. Electrical Connections

4.1 Installing the PE cable

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You must protect each inverter with an individual AC circuit breaker in order to ensure that the inverter can be disconnected safely

Description	Breaker Specification
Grid Side	Max. 50A
Backup Side	32A

# **Warning:**

#### 4.2 Connecting the Grid Power Cable



#### 4.5 Conecting the PV Power Cable



#### **5. Communication Connection**

5.1 Wi-Fi module Connection



### /!\DANGER Danger to life due to short-circuiting of the battery

Touching the short-circuit connection of the battery could result in death or lethal injuries caused by electric shock and massive energy release.

· Switch off the battery breaker which is located on the lower left of the inverter.

· Please finish connecting both ends of one battery power cable before connecting the next one to avoid short-circuiting of the positive and negative battery power cables.



5.2 AUX / LAN / PV\_CT Meter / DRM / GRID\_CT Meter / RS485 / BMS Connection Communication Connection ports are as follows:



# 7. Commissioning

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Never power on without the correct and reliable installation and electrical connection.

Follow the steps in the COMMISSIONING GUIDE AND REPORT to download AlphaESS APP, register your account, power on the product, configure WiFi module, set system parameter and operate the system.

After completing the commissioning, please submit the commissioning report.

# 8. Power ON / OFF the Product Procedure

# Procedure for Powering ON the Product

- 1) Switch on the battery breaker of the batteries.
- 2) Switch on the battery breaker which is on the left side of the inverter.
- 3) Press the battery button. If there are more than one battery, press the button on each battery (press the button on the next battery within 5 seconds).
- 4) Switch on the AC breaker between the grid port of the inverter and the grid.
- 5) Switch on the AC breaker between the backup port of the inverter and the loads.
- 6) Switch on the PV switch on the left side of the inverter.
- 7) Switch on the PV switch between the external PV-inverter and the grid if there is any.

# Procedure for Powering OFF the Product

- 1) Switch off the AC breaker between the backup port of the inverter and the loads.
- 2) Switch off the PV switch is on the left side of the inverter.
- 3) Switch off the PV switch between the external PV-inverter and the grid if there is any. 4) Long press the power button of the battery pack for 6 seconds, then switch off the battery breaker of the battery pack.
- 5) Switch off the battery breaker which is on the left side of the inverter.
- 6) Switch off the AC breaker between the grid port of the inverter and the grid.

## 5.4 CT Wiring (Optional)



# 6. Installing the Decorative Parts

6.1 Installing the Top Cover





6.2 Installing the Right-side Plate





# 9. Installing the cable cover

Make sure all the wiring are finished and the energy storage system is working normally and then install the cable cover on the left side of the inverter









#### For more information, please download the user manual and other technical documents







System User Manual

System Installation Manual

APP Manual (Installer)



AlphaCloud Manual

(Installer)

**APP** Manual

(End user)



AlphaCloud Manual (End user)

System Datasheet

Please refer to the commissioning guide to commission this energy storage system!