



# **X3-HYB G4 PRO**

**4 kW / 5 kW / 6 kW / 8 kW / 10 kW / 12 kW / 15 kW**

## **Installation Manual**

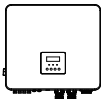
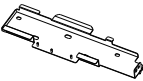
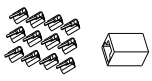
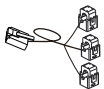
Version 5.0

[www.solaxpower.com](http://www.solaxpower.com)



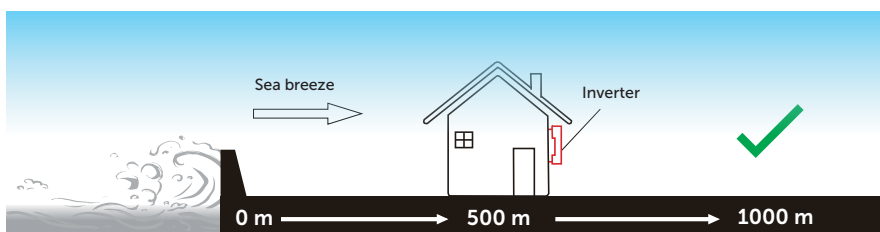
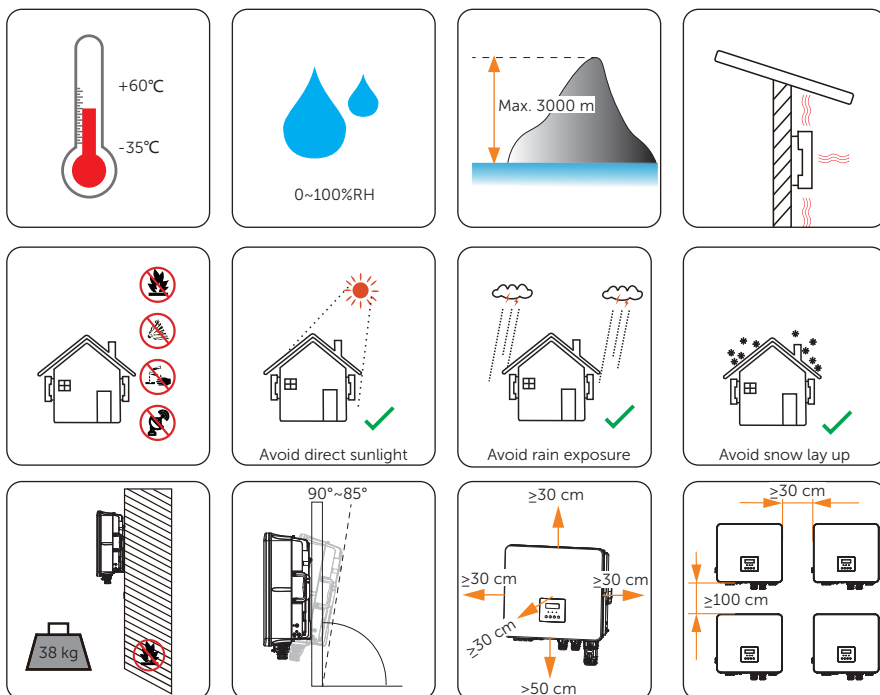
when read in the UK code to  
at [www.solaxpower.com](http://www.solaxpower.com)

Packing List / Packliste / Liste du matériel livré / Lista de piezas / Lista da embalagem / Paklijst / Contenuto della confezione / Zawartość opakowania / Seznam balení / Packlista / Listă de ambalare / Опаковъчен лист / Pakkeliste / Λίστα συσκευασίας / Pakkeleht / Pakkausluettelo / Popis pakiranja / Csomaglista / Pakuotės turinys / Iepakojuma saraksts / Zoznam položiek balenia / Seznam pakiranja / kutu listesi / lista de embalagem

|                                                                                                                                                                                          |                                                                                                                                    |                                                                                                                                             |                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Inverter x 1</p>                                                                                    |  <p>Bracket x 1</p>                               |  <p>Communication connector x 2</p>                        |  <p>Positive PV pin contact x 2<sup>1</sup><br/>Positive PV connector x 2<sup>1</sup></p> |
|  <p>Negative PV pin contact x 2<sup>1</sup><br/>Negative PV connector x 2<sup>1</sup></p>               |  <p>Positive battery connector x 2</p>            |  <p>Negative battery connector x 2</p>                     |  <p>AC connector x 1<br/>Disassembly tool x 1<br/>Allen key x 1</p>                       |
|  <p>Expansion tube x 5</p>                                                                              |  <p>Self-tapping screw x 5</p>                    |  <p>M5 screw x 1</p>                                       |  <p>6 mm<sup>2</sup> AC ferrule<sup>3</sup> x 10</p>                                      |
|  <p>4 mm<sup>2</sup> AC ferrule<sup>3</sup> x 10</p>                                                    |  <p>RJ45 terminal x 12<br/>RJ45 connector x 1</p> |  <p>OT terminal x 2</p>                                    |  <p>(Optional) CT x 1</p>                                                                 |
|  <p>Positive PV dustproof buckle x 2<sup>1</sup><br/>Negative PV dustproof buckle x 2<sup>1</sup></p> |  <p>Wire shielding cover<sup>2</sup> x 1</p>    |  <p>Bracket for wire shielding cover<sup>2</sup> x 1</p> |  <p>M4 screw<sup>2</sup> x 6</p>                                                        |
|  <p>63A manual changeover switch<sup>2</sup> x 1</p>                                                  |  <p>Document</p>                                |  <p>Dongle<sup>4</sup> x 1</p>                           |                                                                                                                                                                            |

- The accessories are subject to the actual delivery.
- <sup>1</sup>- 2 pcs for 4, 5, and 6 kW inverters; 3 pcs for 8, 10, 12, and 15 kW inverters.
- <sup>2</sup>- For Australia and New Zealand only.
- <sup>3</sup>- For 4, 5, 6, and 8 kW inverters, 6 mm<sup>2</sup> and 4 mm<sup>2</sup> AC ferrules are both available to you. Please select it according to the diameter of your Grid & EPS cable.
- <sup>4</sup>- Here take a specific dongle as an example. Please refer to your actual dongle. For dongle installation, see its documentation.

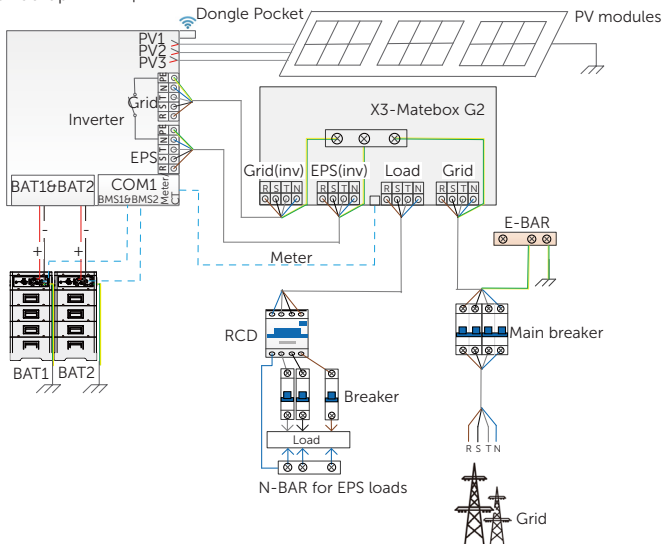
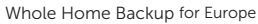
Mounting Location / Montageort / Emplacement de montage / Ubicación de montaje / Localização de montagem / Bevestigingslocatie / Posizione di montaggio / Lokalizacja miejsca montażu / Montážní místo / Monterings plats / Locație de montare / Место за монтаж / Monteringssted / Τοποθεσία στερέωσης / Paigalduskoht / Asennuspaikka / Mjesto postavljanja / Rögzítési hely / Montavimo vieta / Montāžas vieta / Miesto inštalácie / Mesto namestitve / Montaj Konumu / Local de montagem



### NOTICE!

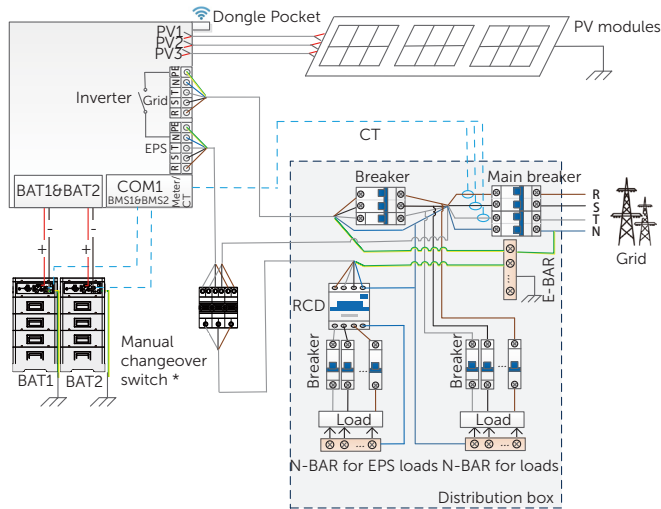
- For outdoor installation, precautions against direct sunlight, rain exposure and snow accumulation are recommended.
- Exposure to direct sunlight raises the temperature inside the device. This temperature rise poses no safety risks, but may impact the device performance.

## Partial Home Backup for Europe

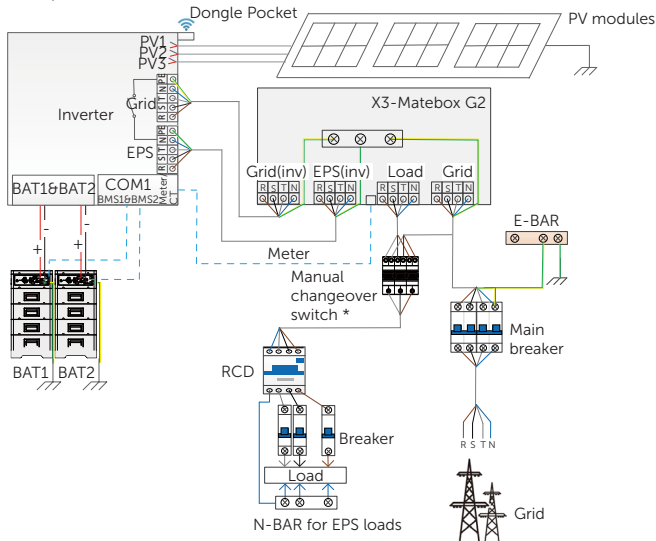




Partial Home Backup for Australia



Whole Home Backup for Australia



\* Included in the scope of delivery. When it is switched to "LOAD", the EPS loads gain power from the PV and battery. When the inverter is failed or under maintenance, switch to "GRID" manually to ensure the EPS loads can work normally.

For specifications of breakers for different inverter models, see the tables below:

- Breaker recommended for grid connection (with EPS)

| Model   | 4 kW | 5 kW | 6 kW | 8 kW | 10 kW | 12 kW | 15 kW |
|---------|------|------|------|------|-------|-------|-------|
| Breaker | 20 A | 20 A | 20 A | 32 A | 40 A  | 40 A  | 40 A  |

- Breaker recommended for grid connection (without EPS)

| Model   | 4 kW | 5 kW | 6 kW | 8 kW | 10 kW | 12 kW | 15 kW |
|---------|------|------|------|------|-------|-------|-------|
| Breaker | 10 A | 16 A | 16 A | 20 A | 25 A  | 25 A  | 32 A  |

- Breaker recommended for off-grid connection (only EPS)

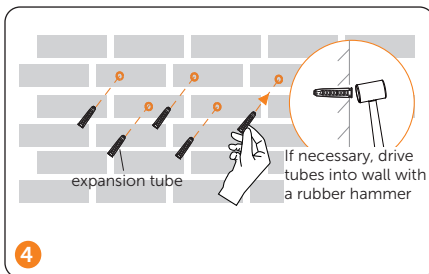
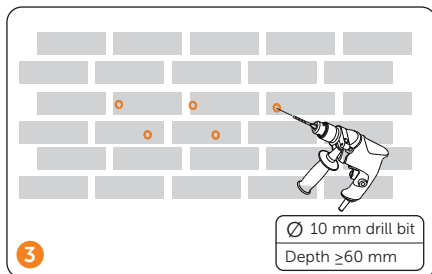
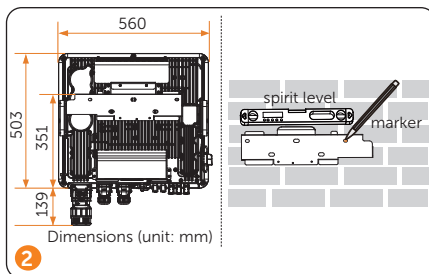
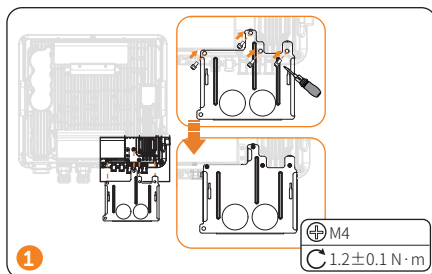
| Model   | 4 kW | 5 kW | 6 kW | 8 kW | 10 kW | 12 kW | 15 kW |
|---------|------|------|------|------|-------|-------|-------|
| Breaker | 10 A | 10 A | 16 A | 16 A | 20 A  | 25 A  | 32 A  |

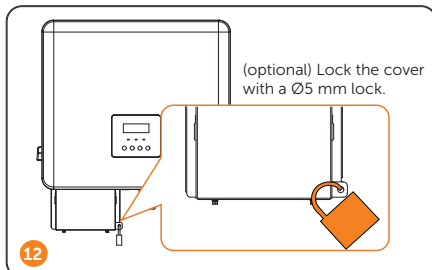
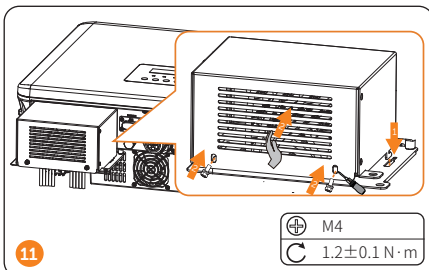
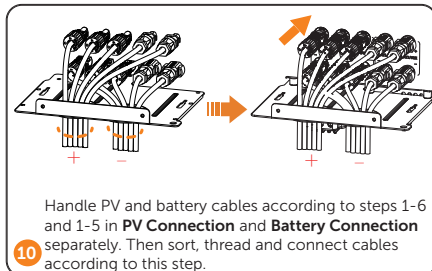
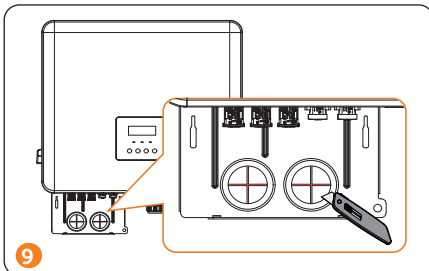
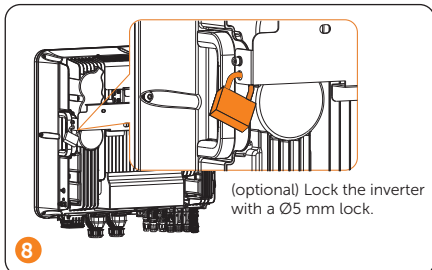
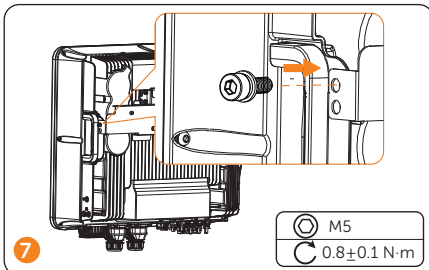
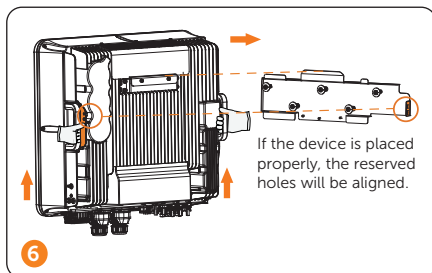
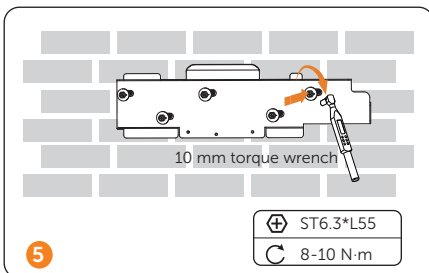
Mechanical Installation / Mechanische Installatie / Installation mécanique / Instalación mecánica / Instalação mecânica / Mechanische installatie / Installazione meccanica / Instalacja mechaniczna / Mechanická instalace / Mekanisk installation / Instalare mecanică / Механичен монтаж / Mekanisk installation / Μηχανική εγκατάσταση / Mehaaniline paigaldus / Mekaaninen asennus / Mehanička ugradnja / Mechanikai telepítés / Mechaninis montavimas / Mehāniskā uzstādīšana / Mechanická inštalácia / Mehanska namestitvev / mekanik kurulum / instalação mecânica

## NOTICE!

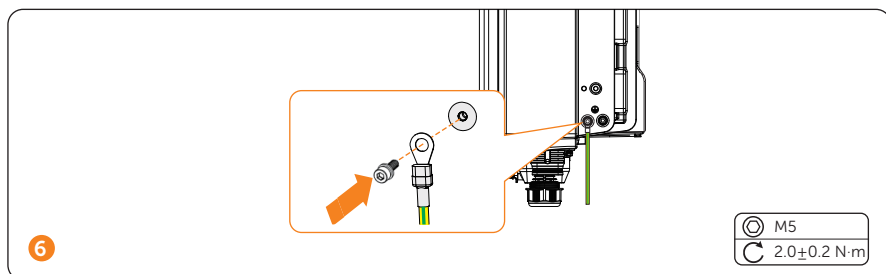
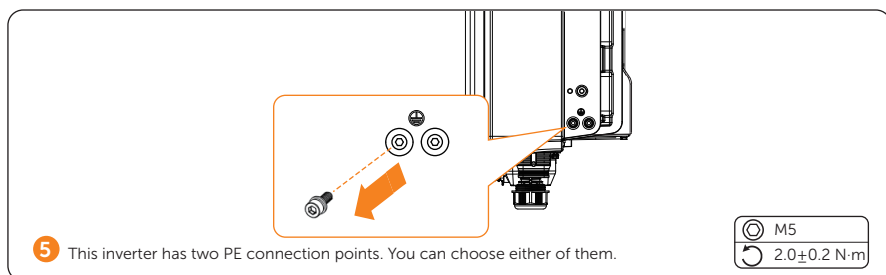
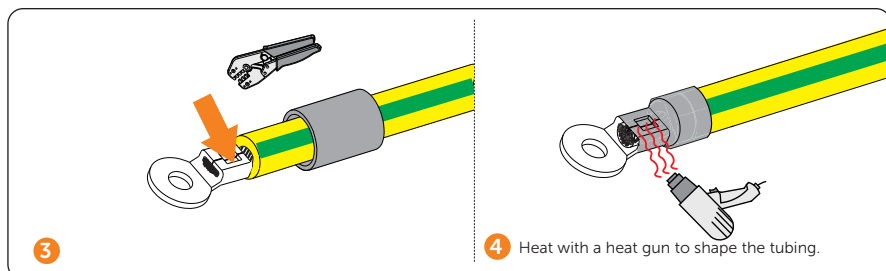
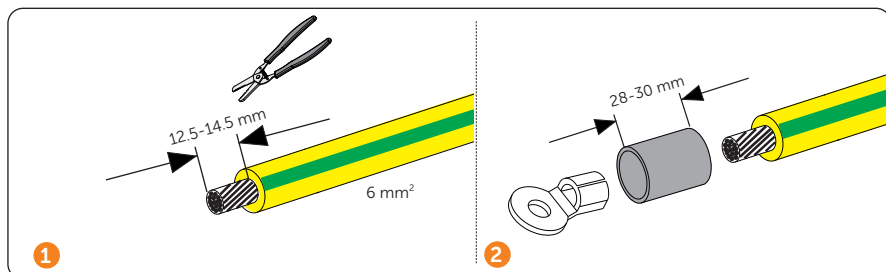
Follow installation steps according to your inverter version:

- For Australian version: All steps.
- For general version: Steps 2 to 8.

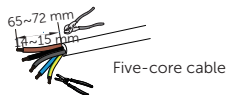




PE Connection / Schutzerdungs-Anschluss / Connexion PE / Conexión PE / Ligação à Terra / PE-aansluiting / Collegamento PE / Połączenie PE / PE připojení / PE-anslutning / Conexiune PE / PE връзка (земя) / Jordforbindelse / Σύνδεση PE / PE ühendus / PE-yhteys / PE priključak / PE bekötés / PE (apsauginio įžeminimo) kontaktas / PE savienojums / Pripojenie ochranného vodiča / PE povezava / PE Bağlantısı / Conexão PE



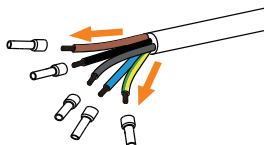
Grid and EPS Connection / Netz- und EPS-Verbindung / Branchement Réseau et EPS / Conexión de red y EPS / Ligação à Rede e Off-grid / Aansluiting op het net en EPS / Collegamento GRID e EPS / Połączenie z siecią i EPS / Pripojení k síti a EPS / Elnäts- och EPS-anslutning / Conectare la rețea și EPS / Връзка с мрежата и аварийното захранване / Elnet- og EPS-tilslutning / Σύνδεση στο δίκτυο και σε Σύστημα ηλεκτρικής ενέργειας (EPS) / Võrgu- ja EPS-ühendus / Verkon ja EPS:n liitäntä / Priključak mreže i EPS priključak / Rácsos és EPS bekötés / Tinklo ir EPS jungtis / Tikla un EPS savienojums / Pripojenie do siete a k núdzovému napájaniu EPS / Povezava z omrežjem in EPS zasilno napajanje / Šebeke ve EPS Bağlantı / Conexão de Rede e EPS



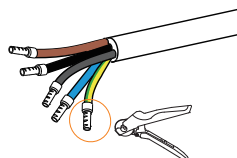
Five-core cable

| Model       | Five-core cable     |
|-------------|---------------------|
| 4/5/6/8 kW  | 4~6 mm <sup>2</sup> |
| 10/12/15 kW | 6 mm <sup>2</sup>   |

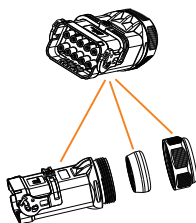
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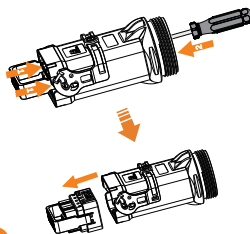
2



3



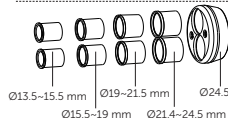
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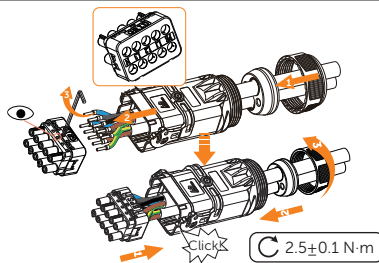
5



Cut off the innermost membrane

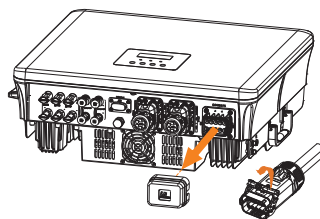


6 Reserve the proper tube based on the outer diameter of your cable.

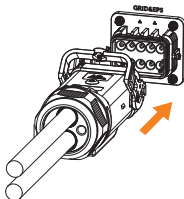


7

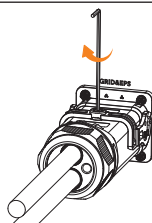
2.5±0.1 N·m



8



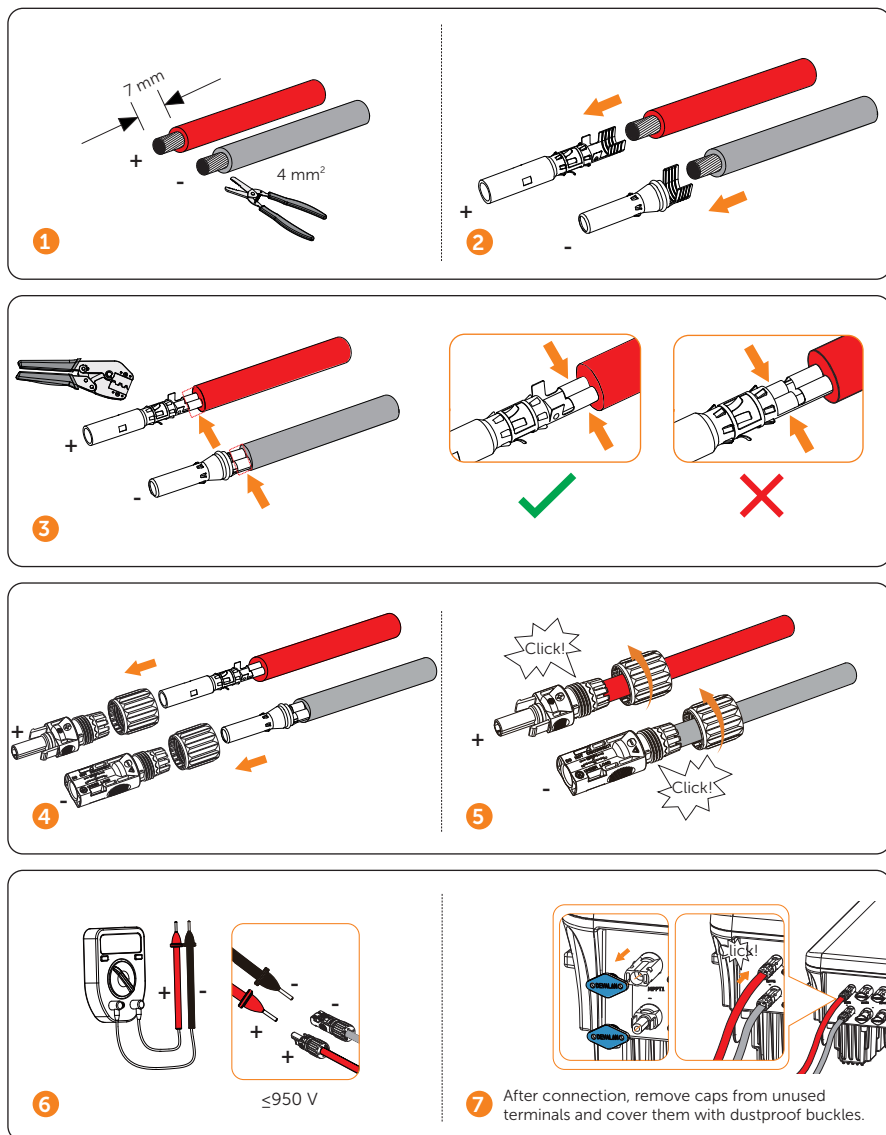
9



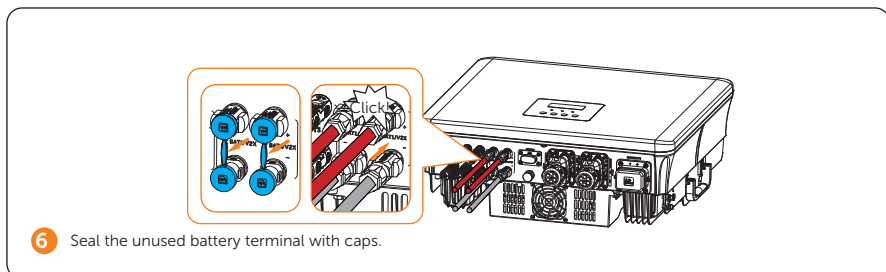
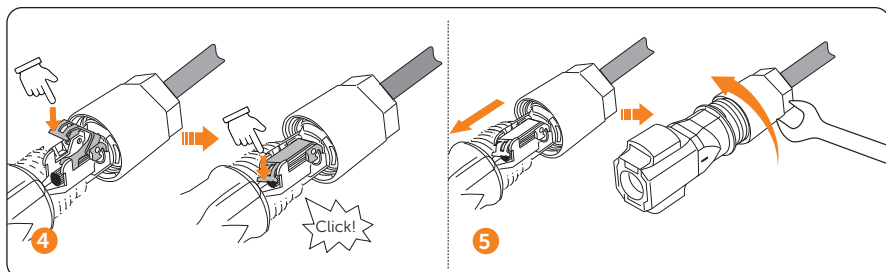
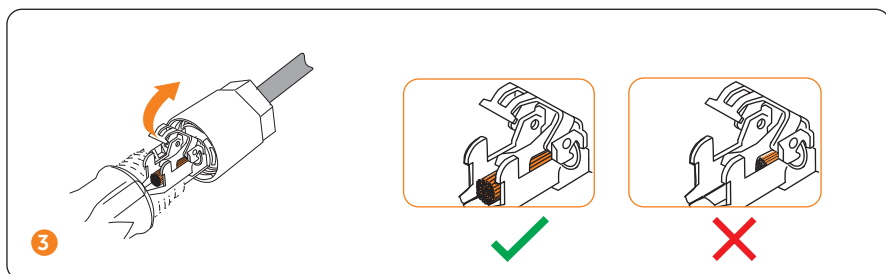
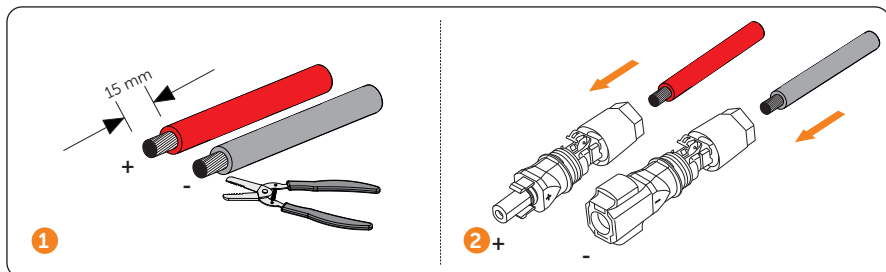
10

Connect the AC connector properly, or it will cause a high-voltage electrical shock!

PV Connection / PV-Anschluss / Connexion PV / Conexión FV / Ligação PV (Fotovoltaica) / PV-aansluiting / Collegamento PV / Połączenie PV / Připojení FV / Anslutning av solcellsanläggning / Conexiune PV / Връзка с PV / PV-tilslutning / Σύνδεση φωτοβολταϊκού / PV-ühendus / PV-liitântä / Fotonaponski priključak / PV bekötés / Fotovoltinè jungtis / PV savienojums / Pripojenie fotovoltaiķy (FV) / Povezava fotonapetostnega kabla (PV) / PV Bağlantısı / Conexão PV

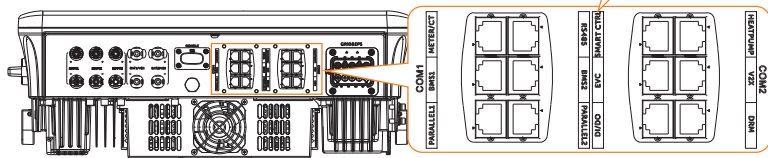


Battery Connection / Batterieanschluss / Branchement de la batterie / Conexión de la batería / Ligaçao da bateria / Batterij-aansluiting / Collegamento della batteria / Połączenie akumulatora / Pripojení baterie / Batterianslutning / Conectare baterie / Връзка с батерията / Batteritilslutning / Σύνδεση μπαταρίας / Akuühendus / Akun liitântä / Priključak za bateriju / Akumulátor bekötés / Akumulatoriaus jungtis / Akumulatora savienojums / Pripojenie batérie / Povezava baterije / Akü Bağlantısı / Conexão da Bateria



Communication Connection / Kommunikations-Anschluss / Branchement de communication / Conexión de comunicación / Ligação à Comunicação / Communicatie-aansluiting / Collegamento comunicazione / Połączenie komunikacyjne / Komunikáční připojení / Kommunikationsanslutning / Conexiune de comunicare / Коммуникационная връзка / Kommunikationsforbindelse / Σύνδεση επικοινωνίας / Sideühendus / Tiedonsiirtoliitäntä / Priklučak za komunikaciju / Komunikációs bekötés / Duomenų ryšys / Sakaru savienojums / Pripojenie komunikácie / Komunikacijska povezava / İletişim Bağlantısı / Conexão de Comunicação

Pin assignment of ports METER/CT, BMS1, BMS2, and DRM



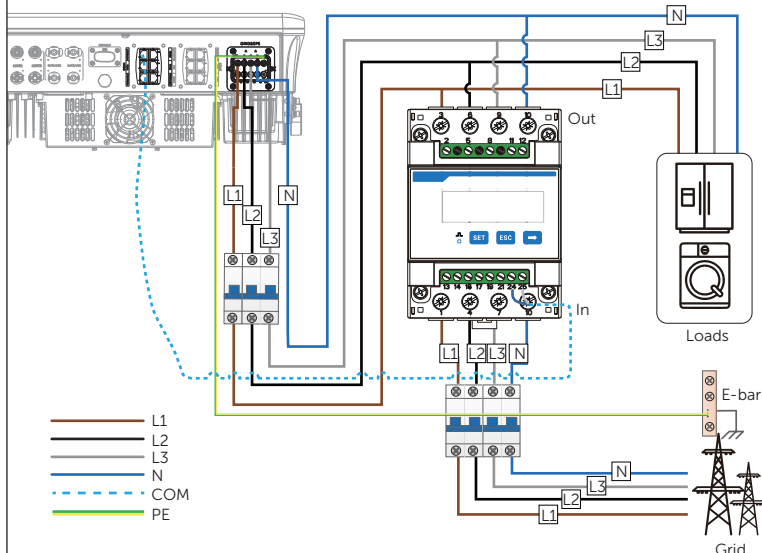
"DATAHUB" in the earlier version

| Port name       | Pin 1         | Pin 2       | Pin 3       | Pin 4             | Pin 5             | Pin 6        | Pin 7             | Pin 8             |
|-----------------|---------------|-------------|-------------|-------------------|-------------------|--------------|-------------------|-------------------|
| <b>METER/CT</b> | CT_R_1        | CT_S_1      | CT_T_1      | METER_485A        | METER_485B        | CT_T_2       | CT_S_2            | CT_R_2            |
| <b>BMS1</b>     | +3.3V_<br>COM | GND_<br>COM | GND_<br>COM | BMS1_<br>CANH_CON | BMS1_CANL_<br>CON | GND_<br>COM  | BMS1_485A_<br>CON | BMS1_485B_<br>CON |
| <b>BMS2</b>     | +3.3V_<br>COM | GND_<br>COM | GND_<br>COM | BMS2_<br>CANH_CON | BMS2_CANL_<br>CON | GND_<br>COM  | BMS2_485A_<br>CON | BMS2_485B_<br>CON |
| <b>DRM</b>      | DRM1/5        | DRM2/6      | DRM3/7      | DRM4/8            | +3.3V_COM         | COM/<br>DRM0 | GND_COM           | GND_COM           |

\*For pin assignment of other communication ports, refer to the user manual.

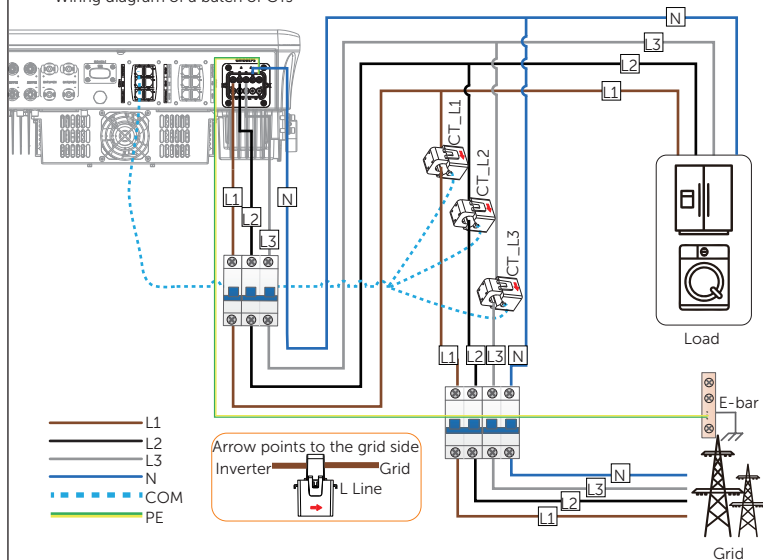
## Meter/CT connection

Wiring diagram of direct-connected meter

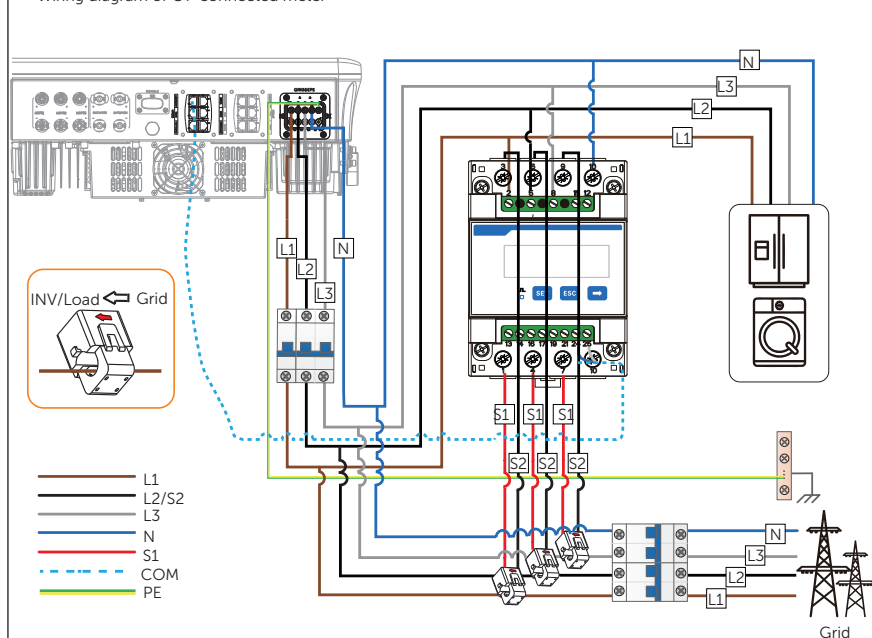




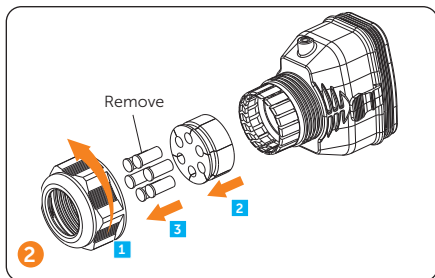
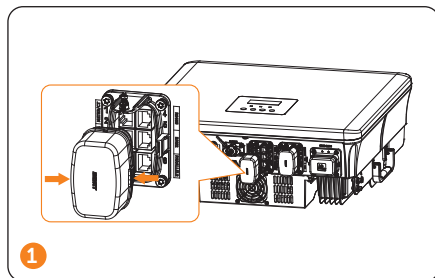
Wiring diagram of a batch of CTs



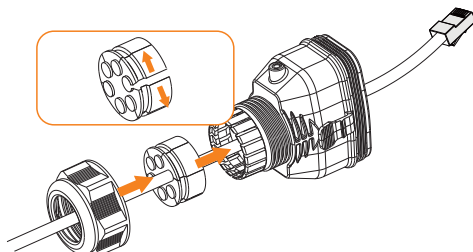
Wiring diagram of CT-connected meter



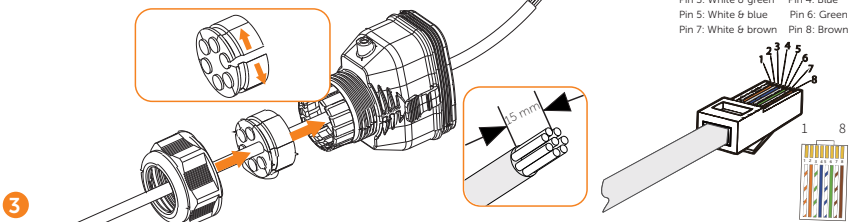
## Communication connection steps



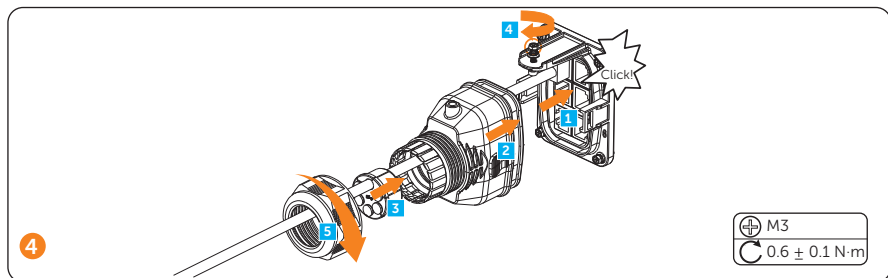
Situation 1: Cable with RJ45 terminal



Situation 2: Cable without RJ45 terminal

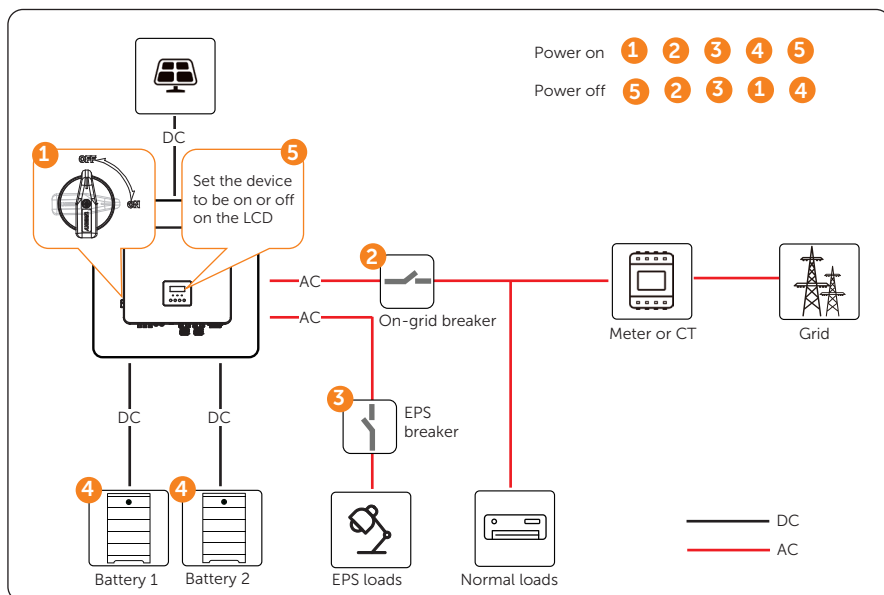


\* Repeat Step 3 if you need to connect another sub-port of port COM 1 or COM2. Go to the next step until all cables are threaded.



\* For details about communication connection, refer to X3-HYB G4 PRO Series User Manual.

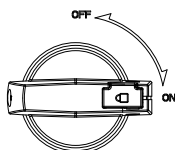
Power On/Off / Einschalten/Ausschalten / Marche/Arrêt / Encendido/apagado / Ligar/Desligar / In-/uitschakelen / Accensione/Spengimento / Włączanie/wyłączanie zasilania / ZAP/VYP / Ström på/av / Pornire/Oprire / Включване/изключване / Strøm til/fra / Ενεργοποίηση/Απενεργοποίηση / Τοide sisse/välja / Virta päälle/pois / Uključivanje/isključivanje napajanja / Be-/kikapcsolás / Maitinimo įjungimas / išjungimas / Barošanas ieslēgšana/izslēgšana / Napájanie zapnuté/vypnuté / Vklop/izklop / Güç Açık/Kapalı / Ligar/Desligar



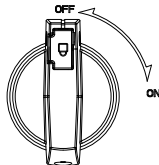
\*For instructions on how to start the battery, refer to the corresponding battery manual.

Lockable DC Switch / Abschließbarer DC-Schalter / Interrupteur CC verrouillable / Interruptor de CC con bloqueo / Interruptor CC Bloqueável / Vergrendelbare DC-schakelaar / Interruttore CC bloccabile / Blokowany przełącznik prądu stałego / Uzamykatelny DC vypínač / Låsbar DC-brytare / Comutator DC blocabil / Заключващ се превключвател за постоянен ток / Låsbar DC-afbryder / Διακόπτης DC με δυνατότητα κλειδώματος / Lukustatav alalisvoolu-lüliti / Lukittava DC-kytkin / Prekidač istosmjernne struje (DC) koji se može blokirati / Zárható DC kapcsoló / Užrakinamas nuolatinės srovės jungiklis / Bloķējams līdzstrāvas slēdzis / Uzamykateľný spínač jednosmerného prúdu / DC stikalo z možnostjo zaklepanja / Kilitlenebilir DC Anahtarı / Interruptor CC bloqueável

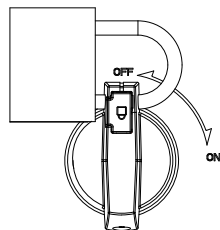
### Three states



ON

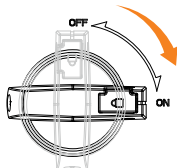


OFF

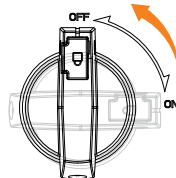


OFF+Lock

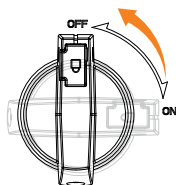
### Turn on



### Turn off

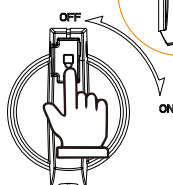


### Turn off + Lock



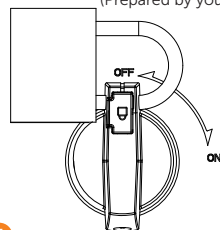
1

Press until the hole is fully vacant



2

Lock  $\varnothing < 5 \text{ mm}$   
(Prepared by yourself)



3

## 1 User Settings (initial password 0000)



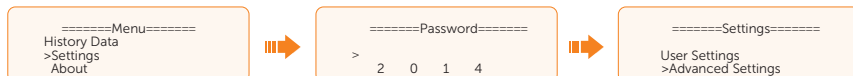
### • Data & Time



### • Language



## 2 Advanced Settings (initial password 2014)

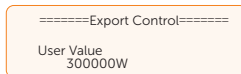


### • Safety Code



Set the safety code for your country or region. For details about safety code, please refer to *X3-HYB G4 PRO User Manual*.

### • Export Control



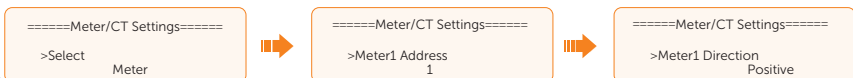
Set the export power to 0 for the countries with the zero export control limit.

### • Meter/CT Settings

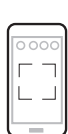
#### • Situation 1: Using a batch of CTs



#### • Situation 2: Using a meter (direct-connected meter or CT-connected meter)



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## Warranty Registration

Please visit the website: <https://www.solaxcloud.com/user-center/> to complete the warranty registration. For more detailed warranty terms, please visit SolaX official website: [www.solaxpower.com](http://www.solaxpower.com).



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