

X3-MIC G2

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

Installation Manual

Version 1.0

www.solaxpower.com

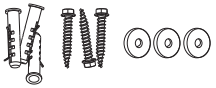
eManual in the QR code or
at www.solaxpower.com

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 Listesii / Lista de Embalagem



Inverter × 1

A B C



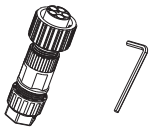
Expansion tube × 3
Self-tapping screw × 3
Washer × 3

D



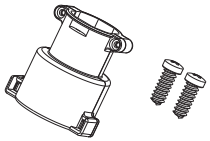
Grounding terminal × 1

E F



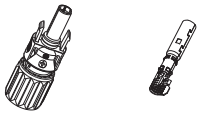
AC connector × 1
Allen wrench × 1

G H



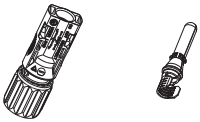
AC terminal sheath × 1
ST2.9 screw × 2

I J



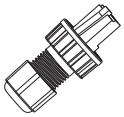
Positive PV connector × 2 or 3[1]
Positive PV pin contact × 2 or 3[1]

K L



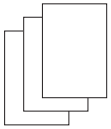
Negative PV connector × 2 or 3[1]
Negative PV pin contact × 2 or 3[1]

M



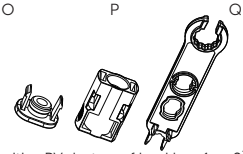
Waterproof connector with RJ45 × 1

N

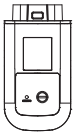


Documents

O P Q



Positive PV dustproof buckle × 1 or 2[2]
Negative PV dustproof buckle × 1 or 2[2]
Disassembling tool for PV terminal × 1



Dongle (Optional) × 1

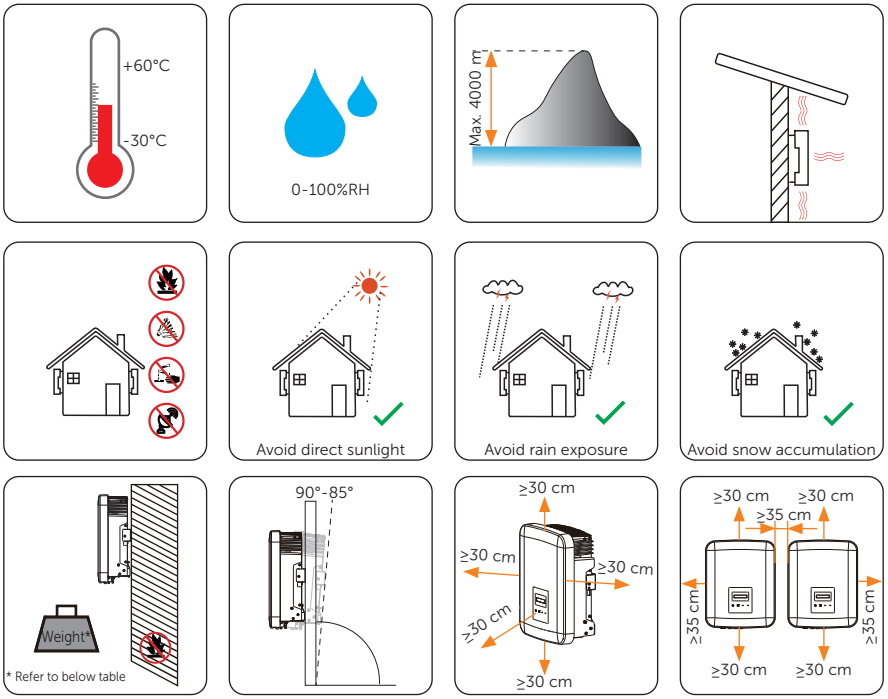
Note:

* Refer to the actual delivery for the optional accessories.

[*1] 2 pcs for 3 kW~8 kW and 10 kW (PV1: one string),
3 pcs for 12 kW~15 kW and 10 kW (PV1: two strings)

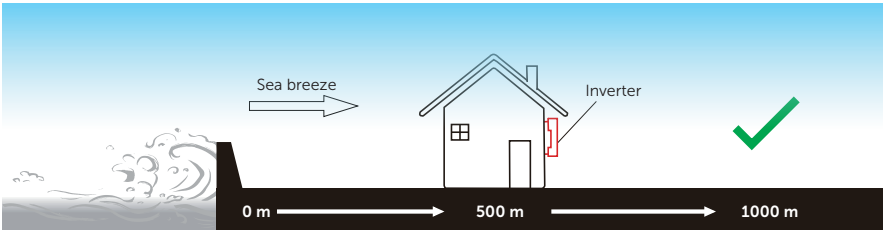
[*2] 1 pc for 3 kW~8 kW and 10 kW (PV1: one string),
2 pcs for 12 kW~15 kW and 10 kW (PV1: two strings)

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 / **Място за монтаж** / Monteringssted / **Τοποθεσία στερέωσης** / Paigalduskoht / Asennuspaikka / Mjesto postavljanja / Rögzítési hely / Montavimo vieta / Montāžas vieta / Miesto inštalácie / Mesto namestitve / Montaj Konumu / Local de montagem



Models	3 kW	4 kW	5 kW	6 kW	8 kW	10 kW	12 kW	15 kW	5 kW-LV	6 kW-LV	8 kW-LV
Net weight (kg)	15.5	15.5	15.5	15.5	17.0	17.0*	18.0	18.0	17.0	18.0	18.0

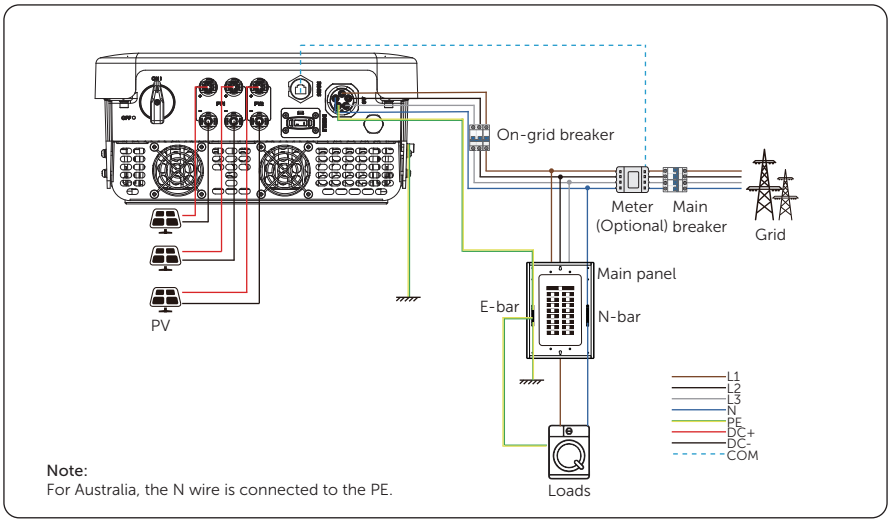
*PV1 connection terminal of 10K model is optional with two strings (Net weight: 18.0 kg).



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.

Wiring Diagram / Schaltplan / Schéma de câblage / Diagrama de cableado / Diagrama de ligação / Bedradingsschema / Schema elettrico / Schemat połączeń / Schéma zapojení / Kopplingsschema / Schemă de conexiuni / **Схема на свързване** / Ledningsdiagram / **Διάγραμμα συνδεσμολογίας** / Ühendusskeem / Kytkentäkaavio / Dijagram ožičenja / Kapcsolási rajz / Elektros laidų montavimo schema / Elektroinstalācijas shēma / Schéma zapojenia / Električna shema / Bağlantı Şeması / Diagrama de fiação



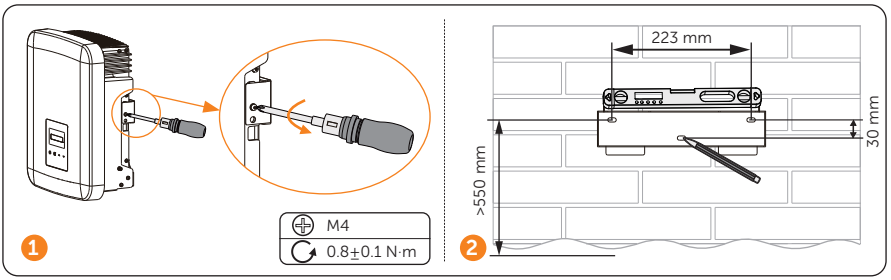
Note:
For Australia, the N wire is connected to the PE.

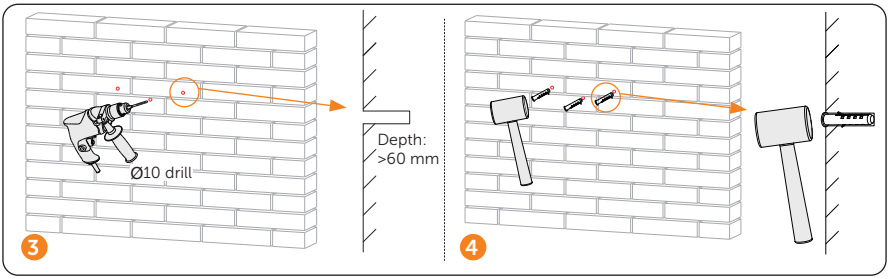
- Breaker recommended

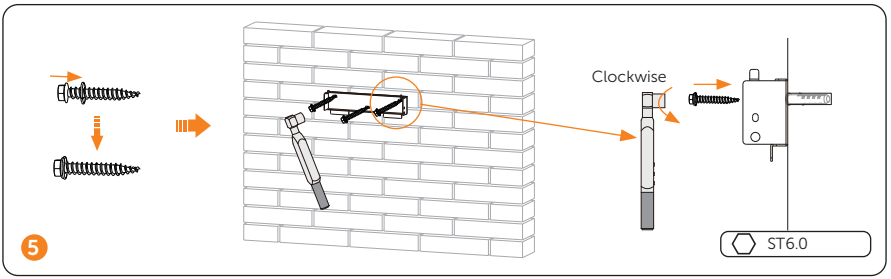
Model	X3-MIC-3K-G2	X3-MIC-4K-G2	X3-MIC-5K-G2	X3-MIC-6K-G2	X3-MIC-8K-G2	X3-MIC-10K-G2
On-grid breaker	16 A	16 A	16 A	20 A	20 A	20 A

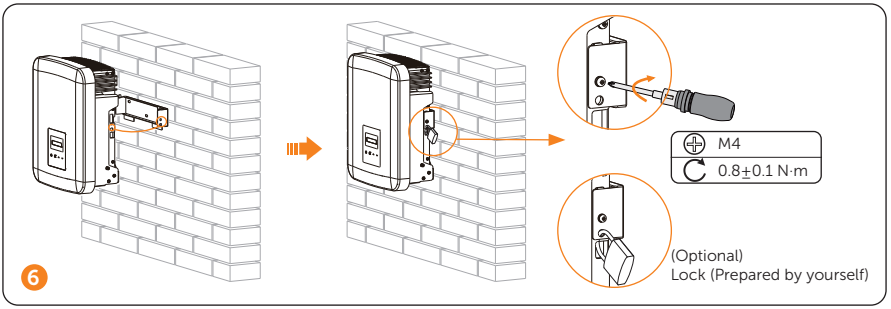
Model	X3-MIC-10KW-G2	X3-MIC-12K-G2	X3-MIC-15K-G2	X3-MIC-5K-G2-LV	X3-MIC-6K-G2-LV	X3-MIC-8K-G2-LV
On-grid breaker	20 A	25 A	32 A	20 A	25 A	32 A

Mechanical Installation / Mechanische Installation / 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 namestitev / Mekanik Kurulum / Instalação Mecânica

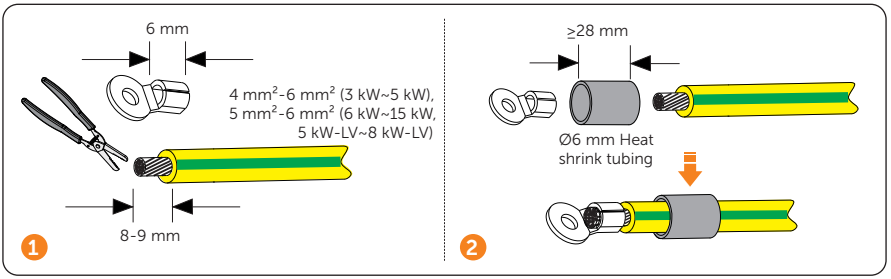


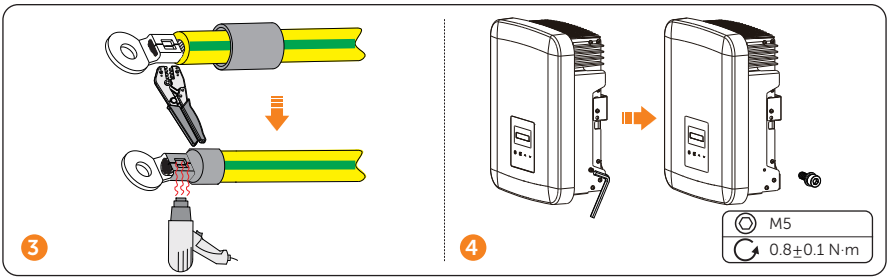


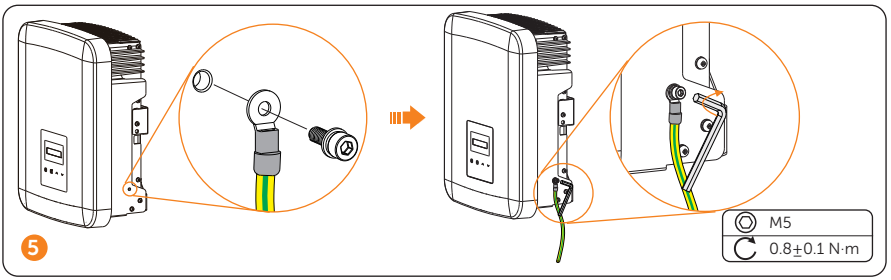




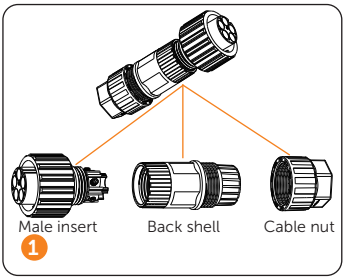
PE Connection / Schutzerdungs-Anschluss / Connexion PE / Conexión PE / Ligação à Terra / PE-aansluiting / Collegamento PE / Połączenie PE / PE připojení / PE-anslutning / Conexiune PE / PE **връзка (земя)** / Jordforbindelse / **Σύνδεση** PE / PE ühendus / PE-yhteys / PE priključak / PE bekötés / PE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

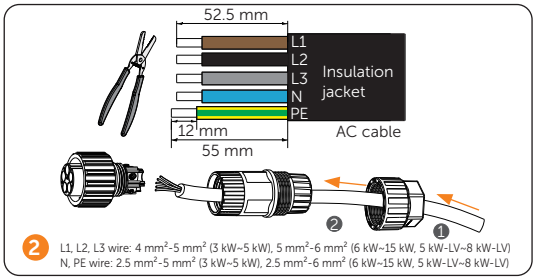


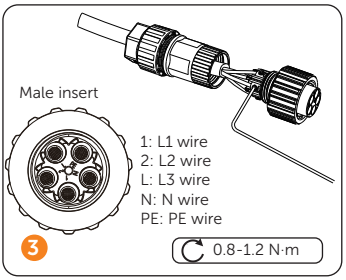


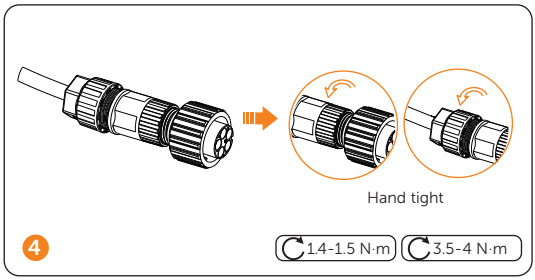


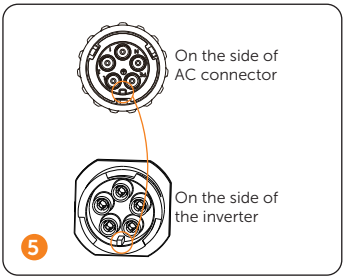
AC Side Connection / Wechselstrom-seitiger Anschluss / Connexion côté CA / Conexión lateral de CA / Ligação lateral CA / Aansluiting wisselspanningszijde / Collegamento lato CA / Połączenie po stronie AC / Boční připojení střídavého proudu / Anslutning på AC-sidan / Conexiune laterală c.a. / **Свързване от АС страната** / AC-sidetilslutning / **Πλαϊνή σύνδεση AC** / Vahelduvvoolupoolne ühendus / AC-puolen liitäntä / Priključak za izmjeničnu struju (AC) / Váltóáram-oldali bekötés / AC (kint. sr.) šoninis kontaktas / Maiņstrāvas puses savienojums / Pripojenie na strane striedavého prúdu / AC stranska povezava / AC Yan Bağlantı / Conexão do Lado CA

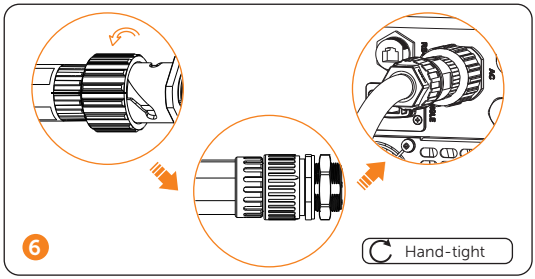


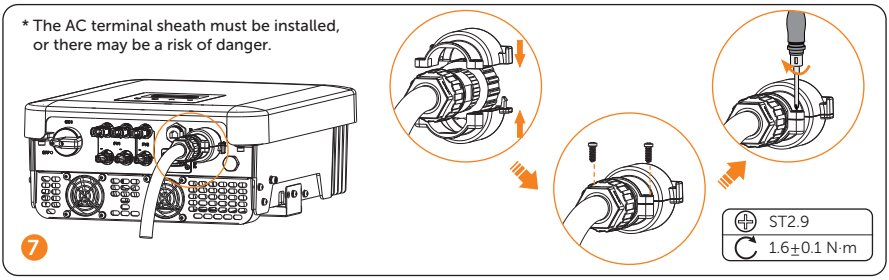




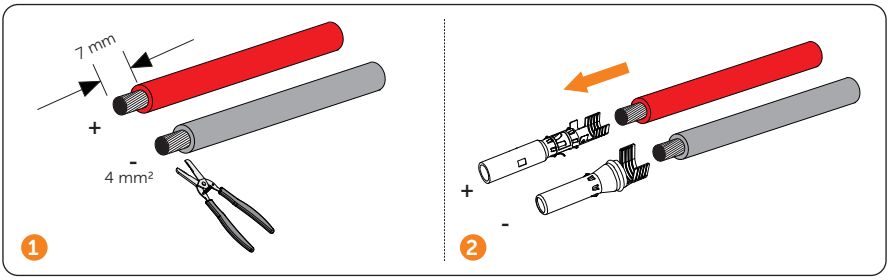


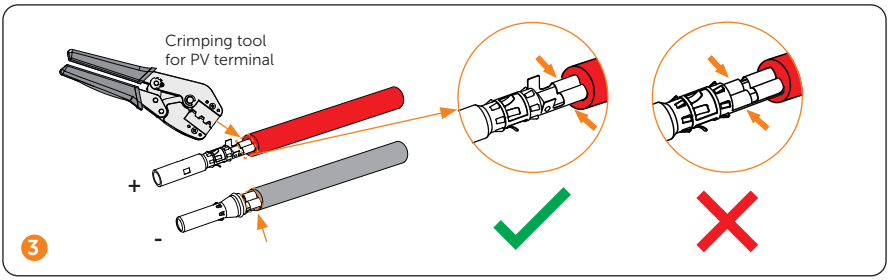


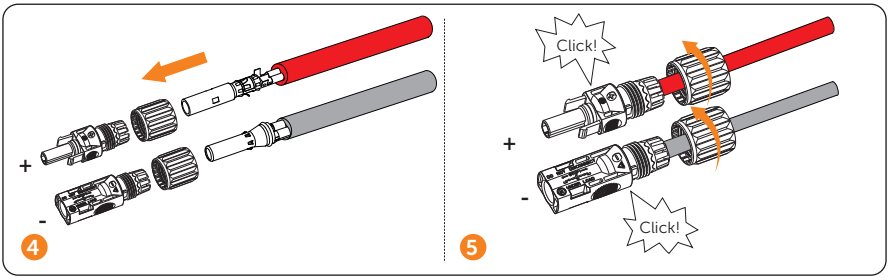


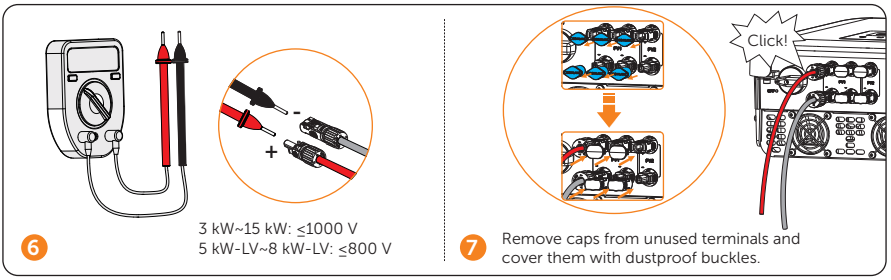


DC Side Connection / Gleichstrom-seitiger Anschluss / Connexion côté CC / Conexión lateral de CC / Ligação lateral CC / Aansluiting gelijkspanningszijde / Collegamento lato CC / Połączenie po stronie DC / Boční připojení stejnosměrného proudu / Anslutning på DC-sidan / Conexiune laterală c.c. / **Свързване от DC страната** / DC-sidetilslutning / **Πλαϊνή σύνδεση DC** / Alalisvoolupoolne ühendus / DC-puolen liitäntä / Priključak za istosmjernu struju (DC) / Egyenáram-oldali bekötés / DC (nuol. sr.) šoninis kontaktas / Līdzstrāvas puses savienojums / Pripojenie na strane jednosmerného prúdu / DC stranska povezava / DC Yan Bağlantı / Conexão do Lado CC



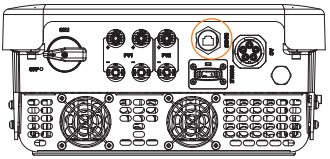






Communication Connection / Kommunikations-Anschluss / Branchement de communication / Conexión de comunicación / Ligação à Comunicação / Communicatie-aansluiting / Collegamento comunicazione / Połączenie komunikacyjne / Komunikační připojení / Kommunikationsanslutning / Conexiune de comunicare / **Комуникационна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

Pin definition for RS485 port

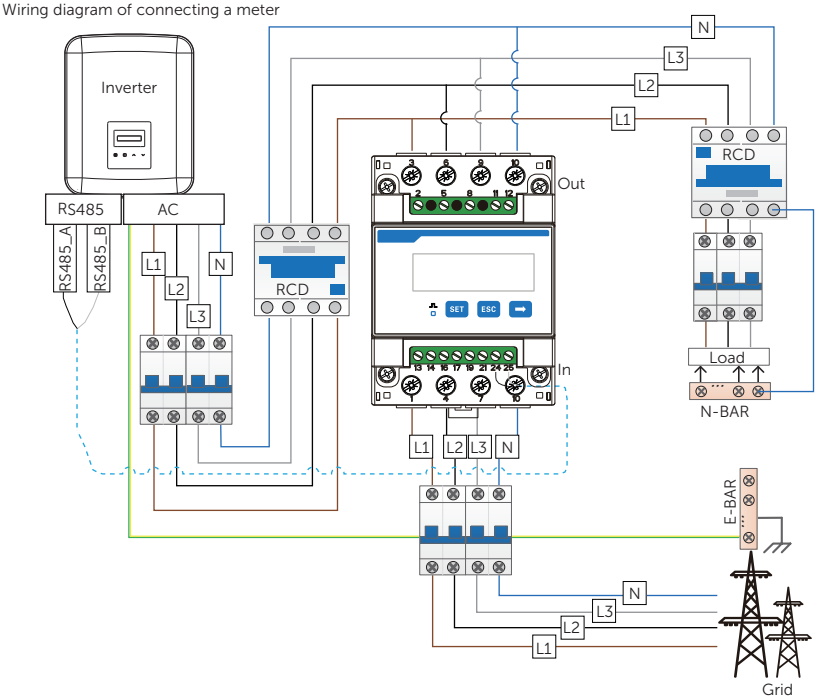


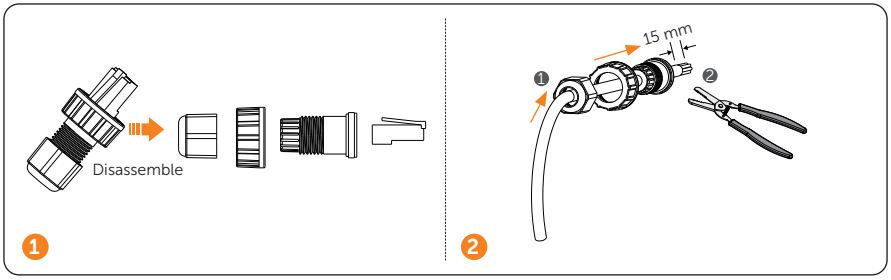


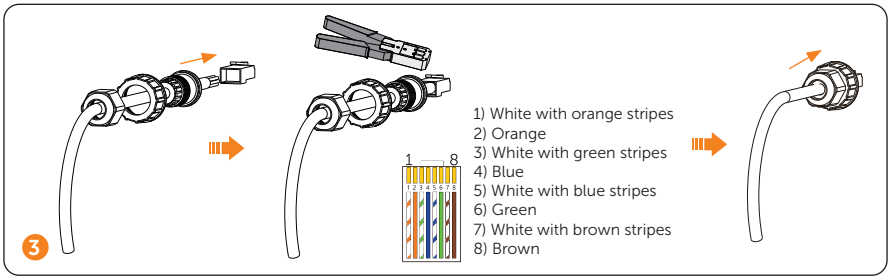
Item	DRM		Heat Pump	RS485/Meter		Heat Pump	-	-
Pin	1	2	3	4	5	6	7	8
Pin Definition	+12V	DRM0	Heat Pump	RS485_A	RS485_B	GND	X	X

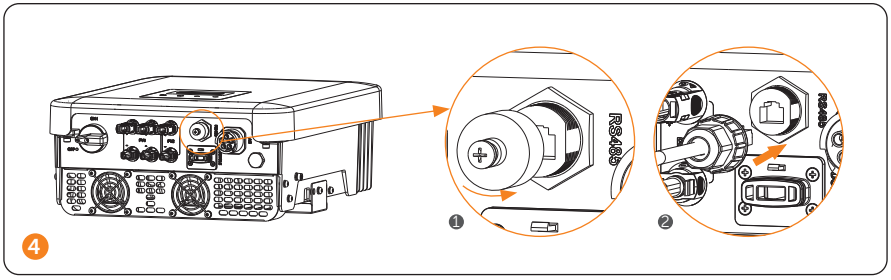
* For DRM, only DRM 0 is available now.

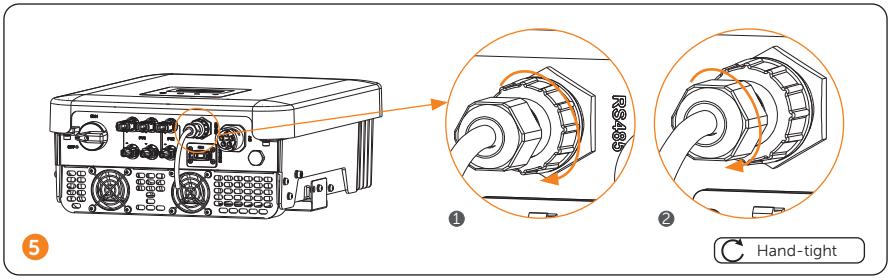
Wiring diagram of connecting a meter



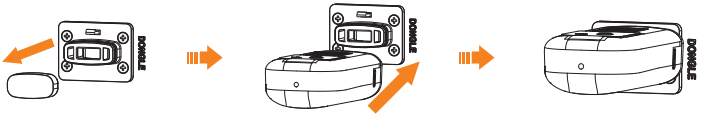

Disassemble
15 mm
1
2


1) White with orange stripes
2) Orange
3) White with green stripes
4) Blue
5) White with blue stripes
6) Green
7) White with brown stripes
8) Brown
1
8
3


RS485
RS485
1
2
4

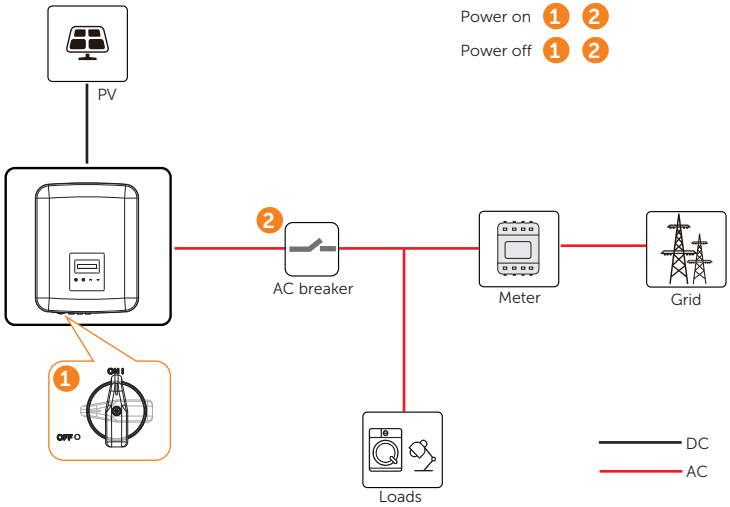

RS485
1
2
Hand-tight
5

Monitoring Connection / Überwachungs-Anschluss / Branchement de surveillance / Conexión de monitorización / Ligação à Monitorização / Monitoring-aansluiting / Collegamento monitoraggio / Połączenie na potrzeby monitorowania / Připojení ke sledování / Övervakningsanslutning / Conexiune de monitorizare / **Мониторингова връзка** / Overvågningsforbindelse / **Σύνδεση παρακολούθησης** / Seire ühendus / Valvontaliitäntä / Priključak za nadzor / Monitoring bekötés / Stebėjimo ryšys / Uzraudzības savienojums / Pripojenie monitorovania / Povezava za spremljanje / İzleme Bağlantısı / Conexão de Monitoramento

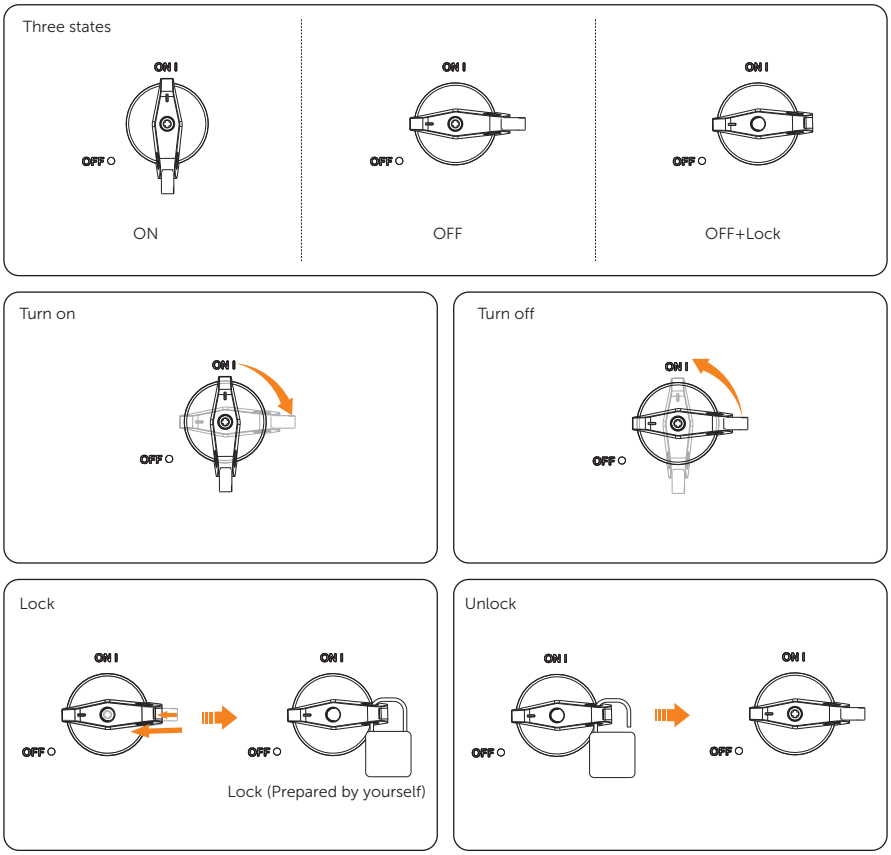


Keep "QR Code" upwards.

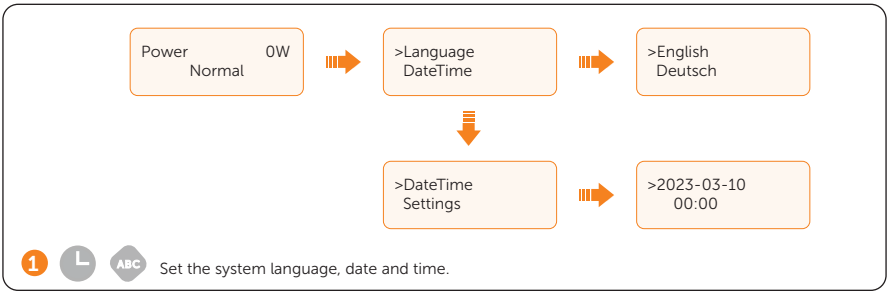
Power On/Off / Einschalten/Ausschalten / Marche/Arrêt / Encendido/apagado / Ligar/Desligar / In-/uitschakelen / Accensione/Spegnimento / Włączanie/wyłączanie zasilania / ZAP/VYP / Ström på/av / Pornire/Oprire / **Включване/изключване** / Strøm til/fra / **Ενεργοποίηση/Απενεργοποίηση** / Toide sisse/välja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

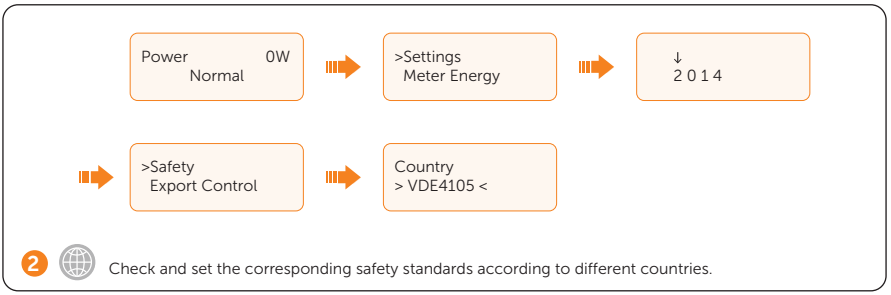


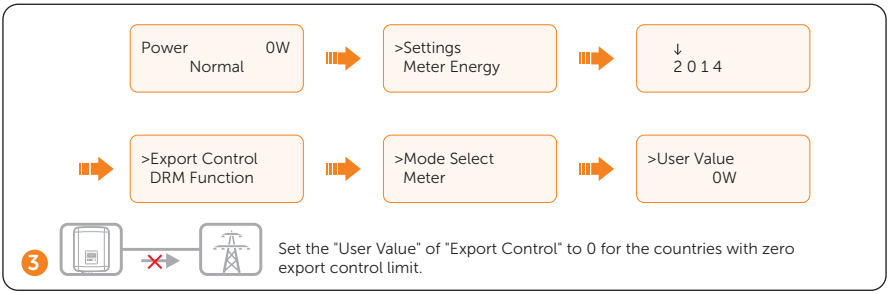
Lockable DC Switch / Abschließbarer DC-Schalter / Interrupteur CC verrouillable / Interruptor de CC con bloqueo / Interruptor CC Bloqueável / Vergrendelbare DC-schakelaar / Interruttore CC bloccabile / Blokowany przełącznik prądu stałego / Uzamykatelný DC vypínač / Låsbar DC-brytare / Comutator DC blocabil / **Заключващ се превключвател за постоянен ток** / Låsbar DC-afbryder / **Διακόπτης DC με δυνατότητα κλειδώματος** / Lukustatav alalisvoolu-lüliti / Lukittava DC-kytkin / Prekidač istosmjerne 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



General Setting / Allgemeine Einstellungen / Paramètres généraux / Configuración general / Definição Geral / Algemene instelling / Impostazione generale / Ustawienia ogólne / Obecné nastavení / Generell inställning / Setare general / **Обща настройка** / Generel indstilling / **Γενική τοποθέτηση** / Üldine seadistus / Yleisasetus / Opće postavke / Általános beállítás / Bendrasis nustatymas / Vispārīgs iestatījums / Všeobecné nastavenie / Splošna nastavitev / Genel Ayar / Configuração Geral







* The initial password is 2014 which should be changed for the consideration of account security. Refer to user manual for more settings.

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- DC input

Model	X3-MIC-3K-G2	X3-MIC-4K-G2	X3-MIC-5K-G2	X3-MIC-6K-G2	X3-MIC-8K-G2	X3-MIC-10K-G2
Max. PV voltage [d.c. V]	1000	1000	1000	1000	1000	1000
Rated input voltage [d.c. V]	640	640	640	640	640	640
MPPT voltage range [d.c. V]	120-980	120-980	120-980	120-980	120-980	120-980
Max. PV current [d.c. A]	16/16	16/16	16/16	16/16	16/16	16/16 [1]
Isc PV array short circuit current [d.c. A]	20/20	20/20	20/20	20/20	20/20	20/20 [1]
Max. inverter backfeed current to the array [d.c. A]	0					

[1] PV1 connection terminal is optional with two strings (Max. PV current: 32 d.c. A, Isc PV array short circuit current: 40 d.c. A).

Model	X3-MIC-10KW-G2	X3-MIC-12K-G2	X3-MIC-15K-G2	X3-MIC-5K-G2-LV	X3-MIC-6K-G2-LV	X3-MIC-8K-G2-LV
Max. PV voltage [d.c. V]	1000	1000	1000	800	800	800
Rated input voltage [d.c. V]	640	640	640	360	360	360
MPPT voltage range [d.c. V]	120-980	120-980	120-980	120-650	120-650	120-650
Max. PV current [d.c. A]	16/16	32/16	32/16	16/16	16/16	16/16
Isc PV array short circuit current [d.c. A]	20/20	40/20	40/20	20/20	20/20	20/20
Max. inverter backfeed current to the array [d.c. A]	0					

- AC output

Model	X3-MIC-3K-G2	X3-MIC-4K-G2	X3-MIC-5K-G2	X3-MIC-6K-G2	X3-MIC-8K-G2	X3-MIC-10K-G2
Rated output apparent power [VA]	3000	4000	5000 [1]	6000	8000	10000 [2]
Max. output apparent power [VA]	3300	4400	5500 [1]	6600	8800	11000 [2]
Nominal AC voltage [a.c. V]	3~/N/PE, 220/380, 230/400; 3~/PE, 380, 400					
Nominal AC frequency [Hz]	50/60 (±5)					
Rated output current [a.c. A]*	4.6, 4.4	6.1, 5.8	7.6, 7.3	9.1, 8.7	12.2, 11.6	15.2, 14.5
Max. output continuous current [a.c. A]	4.8	6.4	8.0	9.6	12.8	16.0
Current (inrush) [a.c. A]	30 (20 μs)					
Power factor range	0.8 leading-0.8 lagging					
Maximum output fault current [a.c. A]	44					
Maximum output overcurrent protection [a.c. A]	39					
Short circuit current [a.c. A]	30					

Model	X3-MIC-10KW-G2	X3-MIC-12K-G2	X3-MIC-15K-G2	X3-MIC-5K-G2-LV	X3-MIC-6K-G2-LV	X3-MIC-8K-G2-LV
Rated output apparent power [VA]	10000	12000	15000 [3]	5000	6000	8000
Max. output apparent power [VA]	10000	13200	15000 [3]	5500	6600	8800
Nominal AC voltage [a.c. V]	3~/N/PE, 220/380, 230/400; 3~/PE, 380, 400			3~/N/PE, 127/220; 3~/PE, 220		
Nominal AC frequency [Hz]	50/60 (±5)					
Rated output current [a.c. A]*	15.2, 14.5	18.2, 17.4	22.7, 21.8	13.2	15.8	21
Max. output continuous current [a.c. A]	16.0	19.1	22.7	14.5	17.4	23.1
Current (inrush) [a.c. A]	30 (20 μs)					
Power factor range	0.8 leading-0.8 lagging					
Maximum output fault current [a.c. A]	44					
Maximum output overcurrent protection [a.c. A]	39					
Short circuit current [a.c. A]	30					

* "Rated output current": For models named without "-LV", the first data corresponds to 220/380 V, the second data corresponds to 230/400 V; for models named with "-LV" the data corresponds to 127/220 V.

[1] 4999 for AS/NZS 4777.2

[2] 9999 for AS/NZS 4777.2

[3] 14999 for AS/NZS 4777.2

- Others

Model	X3-MIC-3K-G2	X3-MIC-4K-G2	X3-MIC-5K-G2	X3-MIC-6K-G2	X3-MIC-8K-G2	X3-MIC-10K-G2
Operating ambient temperature range [°C]	-30 to +60					
Storage temperature [°C]	-30 to +60					
Storage/Operation relative humidity	0%~100%					
Altitude [m]	4000					
Ingress protection	IP66					
Protective class	I					
Overvoltage category	III(MAINS), II(DC)					
Pollution degree	II(Inside), III(Outside)					
Inverter topology	Non-isolated					
Active anti-islanding method	Frequency Shift					
Safety	IEC/EN 62109-1/-2					
Grid monitoring	EN50549, VDE-AR-N 4105, G98, G99, AS/NZS 4777.2,UTE C15, CEI 0-21, VFR2019					

Model	X3-MIC-10KW-G2	X3-MIC-12K-G2	X3-MIC-15K-G2	X3-MIC-5K-G2-LV	X3-MIC-6K-G2-LV	X3-MIC-8K-G2-LV
Operating ambient temperature range [°C]	-30 to +60					
Storage temperature [°C]	-30 to +60					
Storage/Operation relative humidity	0%~100%					
Altitude [m]	4000					
Ingress protection	IP66					
Protective class	I					
Overvoltage category	III(MAINS), II(DC)					
Pollution degree	II(Inside), III(Outside)					
Inverter topology	Non-isolated					
Active anti-islanding method	Frequency Shift					
Safety	IEC/EN 62109-1/-2 *					
Grid monitoring	EN50549, VDE-AR-N 4105, G98, G99, AS/NZS 4777.2,UTE C15, CEI 0-21, VFR2019 *					

* Please refer to the actual certifications of the specific model.

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.

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