





# **Qucik Installation Guide**

# **PRODUCT FEATURES**



























### **Safety**

#### General Notice

- 1. Contents may be periodically updated or revised. SolaX reserves the right to make improvements or changes in the product(s) and the program(s) described in this manual without the prior notice.
- 2. The installation, maintenance and grid-related setting can only be performed by qualified personnel who:
  - Are licensed and/or satisfy state and local jurisdiction regulations;
  - Have good knowledge of this manual and other related documents.
- 3. Before installing the device, carefully read, fully understand and strictly follow the detailed instruction of the user manual and other related regulations. SolaX shall not be liable for any consequences caused by the violation of the storage, transportation, installation, and operation regulations specified in this document and the user manual.
- 4. Use insulated tools when installing the device. Individual protective tools must be worn during installation, electrical connection and maintenance.
- 5. Please visit the website www.solaxpower.com of SolaX for more information.

### Descriptions of Labels

CE	CE mark of conformity	TÜVRholsland centifilio  TÜVRholsland centifilio	TUV certification		
	RCM mark of conformity	CA	UKCA mark of conformity		
	Additional grounding point		Caution, hot surface		
4	Caution, risk of electric shock		Caution, risk of danger		
	Read the enclosed documentations	Z	Do not dispose of the inverter together with household waste.		
	Do not operate this inverter until it is isolated from mains and on-site PV generation suppliers.				
A C:	Danger of high voltage. Do not touch live parts for 5 minutes after disconnection from the power sources.				

## **!** DANGER!

### Lethal danger from electrical shock due to the inverter

- Only operate the inverter when it is technically faultless. Otherwise, electric shock or fire may occur.
- Do not open the enclosure in any case without authorization from SolaX.
   Unauthorized opening will void the warranty and cause lethal danger or serious injury due to electric shock.

## /!\ DANGER!

#### Lethal danger from electrical shock due to the PV

- When exposed to sunlight, high DC voltage will be generated by PV modules. Death or lethal injuries will occur due to electric shock.
- Never touch the positive or negative pole of PV connecting device. Touching both of them at the same time is prohibited as well.
- Do not ground the positive or negative pole of the PV modules.
- Only qualified personnel can perform the wiring of the PV panels.

## **!** WARNING!

### Risk of personnel injury or inverter damage

- During operation, do not touch any parts other than DC switch and LCD panel of the inverter.
- Never connect or disconnect the AC and DC connectors when the inverter is running.
- Turn off the AC and DC power and disconnect them from the inverter, wait for 5 minutes to fully discharge the voltage before attempting any maintenance, cleaning or working on any circuits connected.
- Make sure that the input DC voltage ≤ Maximum DC input voltage of the inverter.
   Overvoltage may cause permanent damage to the inverter, which is NOT covered by the warranty.

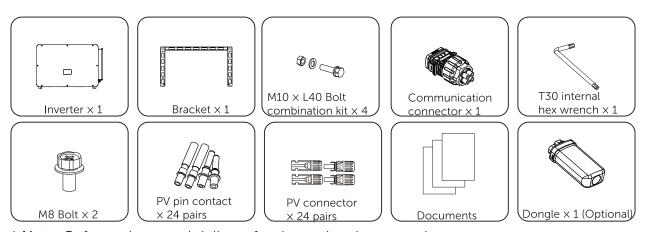
## ( CAUTION!

- Keep children away from the inverter.
- Pay attention to the weight of the inverter. Personal injuries may be caused if not handled properly.

#### **NOTICE!**

- If an external RCD is required by local regulations, check which type of RCD is required for relevant electric codes. It is recommended to use a Type-A RCD with the value of 300 mA.
- All the product labels and nameplate on the inverter shall be maintained clearly visible.

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 / Οπακοβυνεμ πμετ / Pakkeliste / Λίστα συσκευασίας / Pakkeleht / Pakkausluettelo / Popis pakiranja / Csomaglista / Pakuotės turinys / Iepakojuma saraksts / Zoznam položiek balenia / Seznam pakiranja / Kutu Listesii / Lista de Embalagem



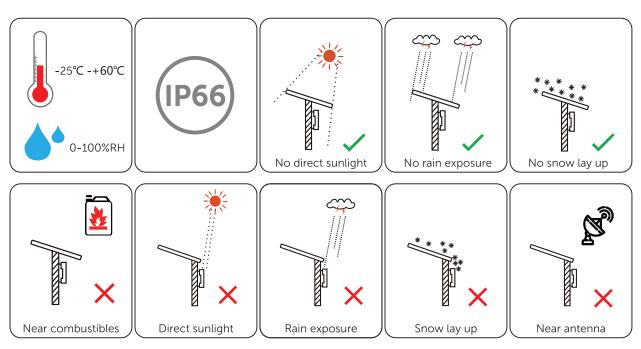
\* Note: Refer to the actual delivery for the optional accessories.

PV pin contact and PV connector: 12 pairs for 40 kW and 50 kW inverter;

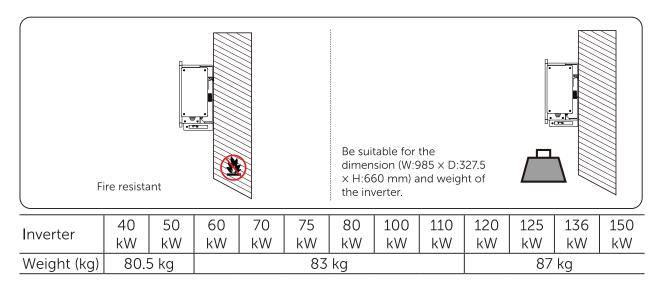
18 pairs for 60 kW to 110 kW inverter; 24 paris for 120 kW to 150 kW inverter.

Please purchase OT terminals separately.

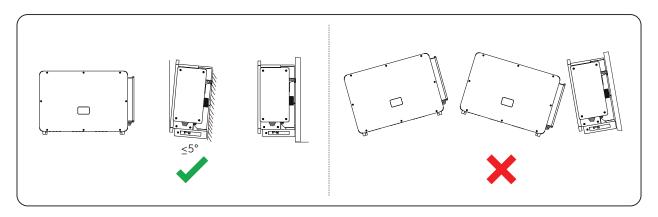
Installation Site / Installationsort / Site d'installation / Sitio de instalación / Local de instalação / Installatiesite / Sito di installazione / Miejsce instalacji / Místo instalace / Installationsplats / Loc de instalare / Μοηταжεμ οδεκτ / Monteringssted / Τόπος εγκατάστασης / Paigaldamise koht / Asennuspaikka / Lokacija ugradnje / Telepítési helyszín / Montavimo vieta / Uzstādīšanas vieta / Miesto inštalácie / Mesto namestitve / Kurulum Yeri / Local de Instalação



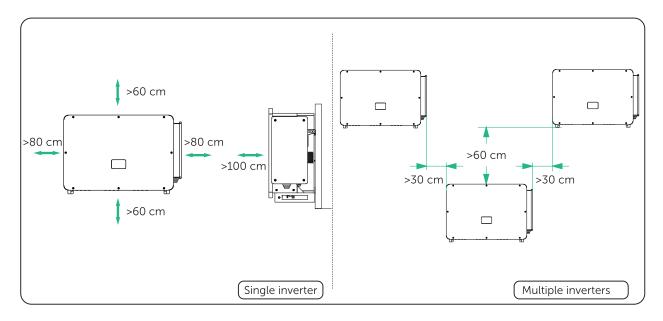
Installation Carrier / Installationsträger / Partie porteuse / Soporte de instalación / Suporte de Instalação / Installatiedrager / Supporto di installazione / Powierzchnia montażowa / Nosič instalace / Installationsfästen / Suport instalație / Монтажна основа / Monteringsholder / Μεταφορέας εγκατάστασης / Paigalduskandja / Asennusteline / Nosač za ugradnju / Telepítési szolgáltató / Montavimo pagrindas / Instalācijas turētājs / Nosná konštrukcia pre inštaláciu / Namestitveni nosilec / Kurulum Taşıyıcı / Portador de Instalação



Installation Angle / Installationswinkel / Angle d'installation / Ángulo de instalación / Ângulo de instalação / Installatiehoek / Angolazione di installazione / Kąt instalacji / Instalační úhel / Installationsvinkel / Unghi de instalare / Μομταжен ъгъл / Monteringsvinkel / Γωνία εγκατάστασης / Paigaldusnurk / Asennuskulma / Kut ugradnje /Telepítési szög / Montavimo kampas / Uzstādīšanas leņķis / Uhol inštalácie / Namestitveni kot / Kurulum Açısı / Ângulo de Instalação

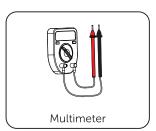


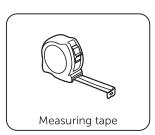
Installation Space / Installationsraum / Espace d'installation / Espacio de instalación / Espaço de instalação / Installatieruimte / Spazio di installazione / Przestrzeń instalacyjna / Instalační prostor / Installationsutrymme / Spaţiu de instalare / Μοηταжηο προστραμότειο / Monteringsplads / Χώρος εγκατάστασης / Paigaldusruum / Asennustila /Mjesto ugradnje / Telepítési tér / Montavimo erdvé / Uzstādīšanas telpa / Priestor pre inštaláciu / Prostor za namestitev / Kurulum Alanı / Espaço de Instalação

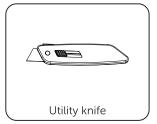


Installation Tools / Installationswerkzeuge / Outils d'installation / Herramientas de instalación / Ferramentas de instalação / Installatiemiddelen / Utensili di installazione / Narzędzia do instalacji / Instalační nástroje / Verktyg för installation / Instrumente de instalare / Монтажни инструменти / Monteringsværktøjer / Εργαλεία εγκατάστασης /Paigaldamise tööriistad / Asennustyökalut / Alati za ugradnju / Telepítő eszközök / Montavimo įrankiai / Uzstādīšanas instrumenti / Nástroje pre inštaláciu / Orodja za namestitev / Kurulum Araçları / Ferramentas de Instalação



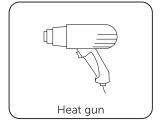


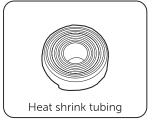


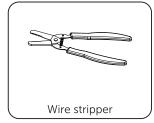


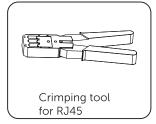


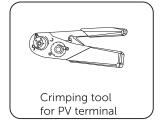


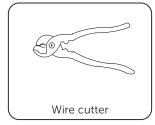




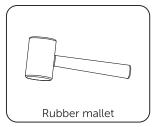


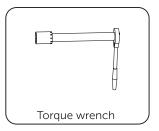






















Additionally Required Materials / Zusätzlich erforderliche Materialien / Matériaux supplémentaires requis / Materiales adicionales necesarios / Materiais Adicionais Necessários / Extra benodigde materialmen / Materiali aggiuntivi necessary / Materiały wymagane dodatkowo / Další požadované materiály / Ytterligare materialkrav / Materiale suplimentare necesare / Други необходими материали / Yderligere nødvendige materialer / Πρόσθετα απαιτούμενα υλικά / Täiendavad vajalikud materjalid / Muut vaaditut materiaalit / Potrebni dodatni materijali / További szükséges anyagok / Papildomos reikalingos medžiagos / Papildus vajadzīgie materiāli / Dodatočne požadované materiály / Dodatno zahtevani materiali / Ayrıca Gerekli Malzemeler / Materiais Adicionais Necessários

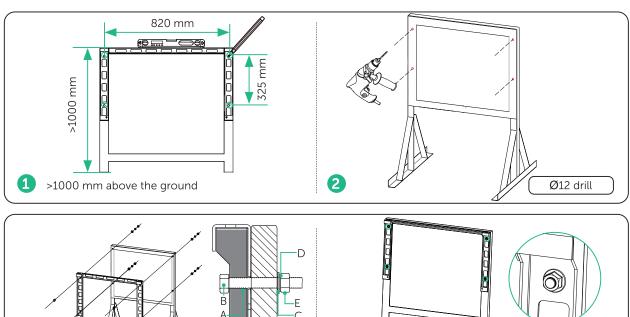
No.	Require	d Matei	rial	Туре	Туре			- 1	Conductor Cross- Section			Cable Length	
1	PV cable	e e		comp	Dedicated PV wire complying with 1,500 V standard			4-6	4-6 mm <sup>2</sup>			0 m	
2	AC cable (40-125 kW)		Five-	Five-core copper wire			70 i	70 mm²-240 mm²			0 m		
2	AC cable (40-125 kW)		Five-	Five-core aluminium wire			70 i	70 mm²-240 mm²		<sup>2</sup> ≤20	0 m		
3	AC cable (136-150 kW)			) Four-	Four-core copper wire			70 ı	70 mm <sup>2</sup> -240 mm <sup>2</sup>		<sup>2</sup>  ≤20	0 m	
<i></i>	AC cable (136-150 kW)		) Four-	Four-core aluminium wire			e   70 i	70 mm <sup>2</sup> -240 mm <sup>2</sup>		<sup>2</sup>  ≤20	0 m		
4	Communication cable			·	Network cable CAT5 or better			0.5	mm²-(	).75 mr	n² ≤15	0 m	
4	Communication			ENYC	ENY0512 nylon terminal for 0.5 mm <sup>2</sup> / 22 AWG conductor								
	terminal	erminal		ENY7	ENY7512 nylon terminal for 0.75 mm² / 20 AWG conductor								
5	Additoinal PE cable		Conventional yellow and green wire			35 ı	35 mm <sup>2</sup> -70 mm <sup>2</sup>			0 m			
6	M10 × L80 expansion bolt kit × 4		For w	For wall-mounting			/	/			/		
Inverte	r 40 kW	50 kW	60 kW	70 kW	75 kW	80 kW	100 kW	110 kW	120 kW	125 kW	136 kW	150 kW	
AC breake	_ 150 A	200 A	250 A	250 A	250 A	150 A	200 A	200 A	250 A	250 A	200 A	250 A	

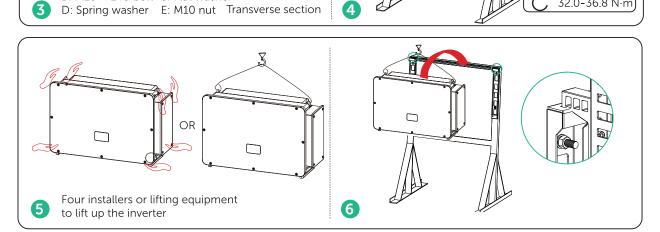
Mechanical Installation / Mechanische Installation / Installation mécanique / Instalación mecánica / Instalação mecânica / Mechanische installatie / Installazione meccanica / Instalacja mechaniczna / Mechanická instalace / Mekanisk installation /Instalare mecanică / Μεχαμινεμ монтаж / Mekanisk installation / Μηχανική εγκατάσταση / Mehaaniline paigaldus / Mekaaninen asennus / Mehanička ugradnja / Mechanikai telepítés / Mechaninis montavimas / Mehāniskā uzstādīšana / Mechanická inštalácia / Mehanska namestitev / Mekanik Kurulum / Instalação Mecânica

### Stand-mounting

Order: A: Bracket

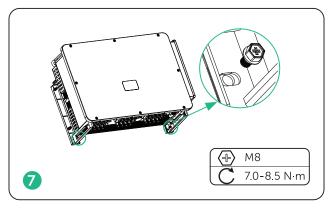
B: M10 × L40 bolt C: Flat washer



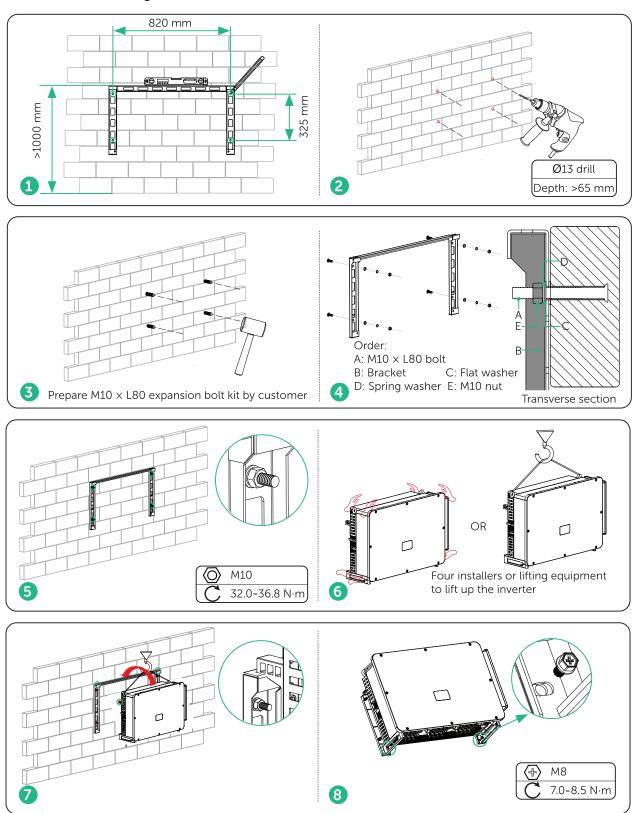


M10

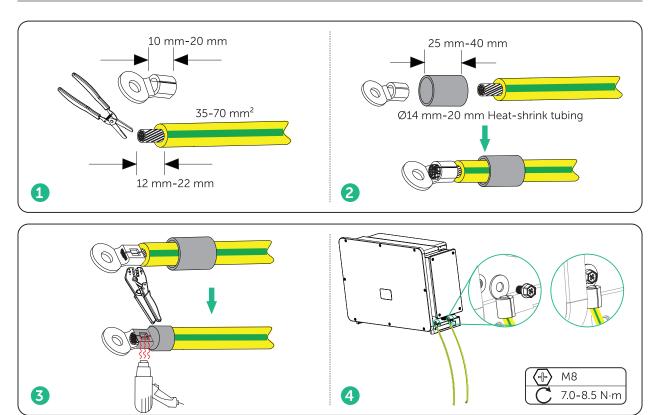
32.0-36.8 N·m



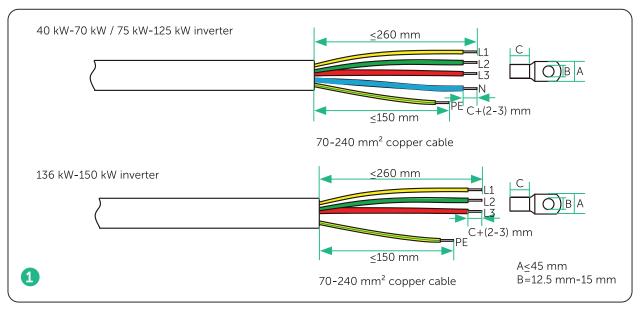
### Wall-mounting

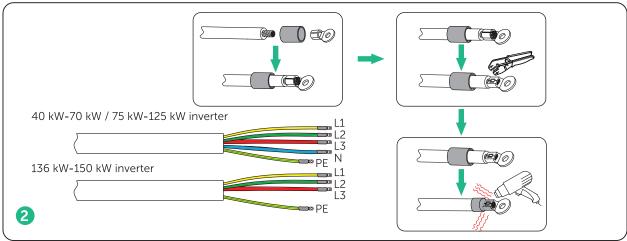


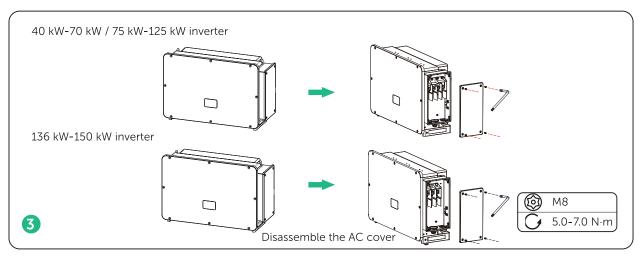
PE Connection / Schutzerdungs-Anschluss / Connexion PE / Conexión PE / Ligação à Terra / PE-aansluiting / Collegamento PE / Połączenie PE / PE připojení / PE-anslutning / Conexiune PE / PE βρъзка (3eмя) / Jordforbindelse / Σύνδεση PE / PE ühendus / PE-yhteys / PE priključak / PE bekötés / PE (apsauginio įžeminimo) kontaktas / PE savienojums / Pripojenie ochranného vodiča / PE povezava / PE Bağlantısı / Conexão PE

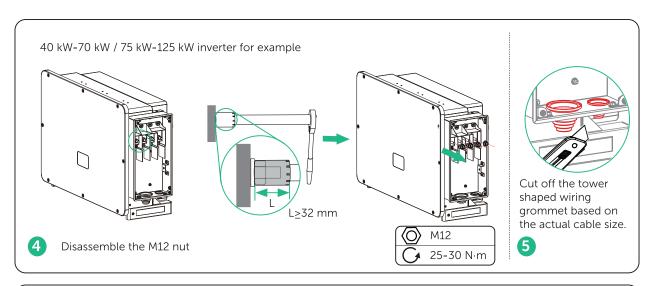


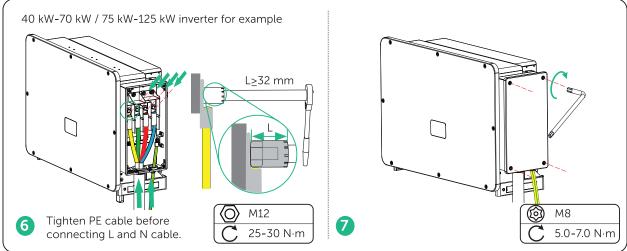
AC Side Connection / Wechselstrom-seitiger Anschluss / Connexion côté CA / Conexión lateral de CA / Ligação lateral CA / Aansluiting wisselspanningszijde / Collegamento lato CA / Połączenie po stronie AC / Boční připojení střídavého proudu / Anslutning på AC-sidan / Conexiune laterală c.a. / Свързване 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

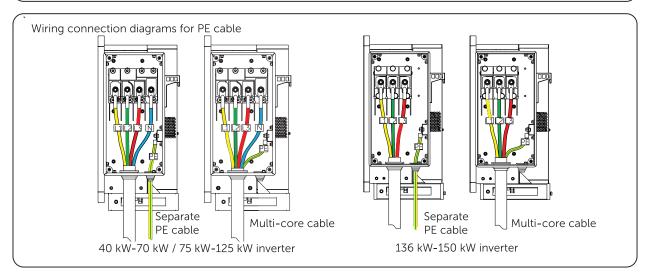




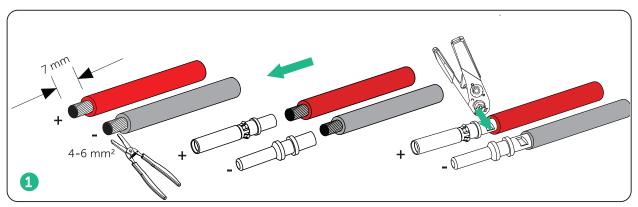


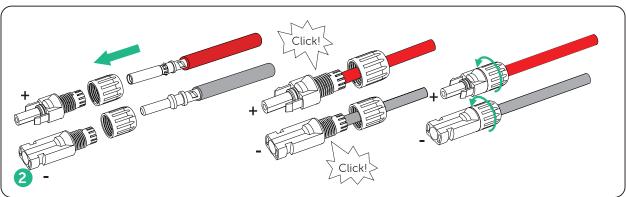


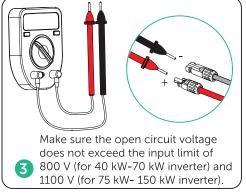


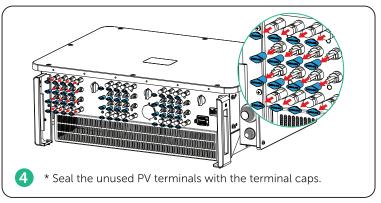


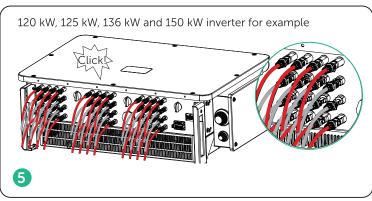
DC Side Connection / Gleichstrom-seitiger Anschluss / Connexion côté CC / Conexión lateral de CC / Ligação lateral CC / Aansluiting gelijkspanningszijde / Collegamento lato CC / Połączenie po stronie DC / Boční připojení stejnosměrného proudu / Anslutning på DC-sidan / Conexiune laterală c.c. / Свързване 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



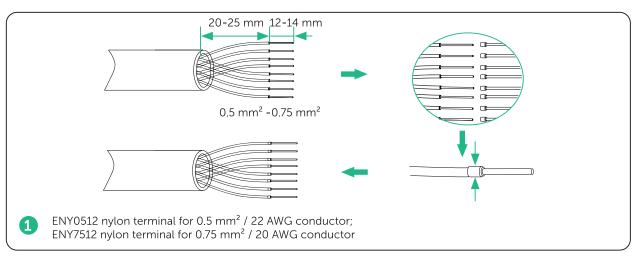


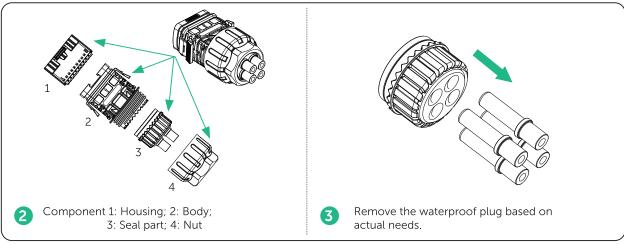


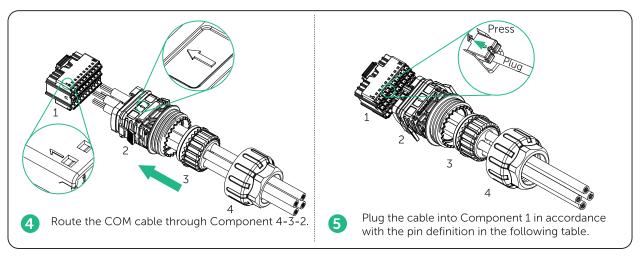




Communication Connection / Kommunikations-Anschluss / Branchement de communication / Conexión de comunicación / Ligação à Comunicação / Communicatie-aansluiting / Collegamento comunicazione / Połączenie komunikacyjne / Komunikační připojení / Kommunikationsanslutning / Conexiune de comunicare / Κομημκαμμομμα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

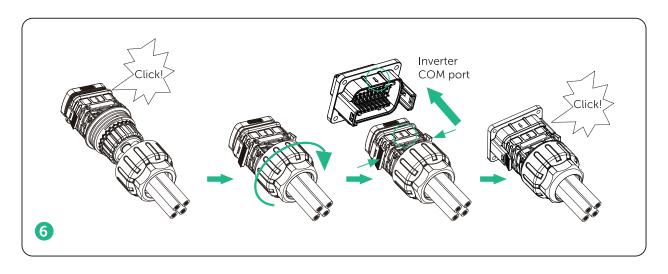




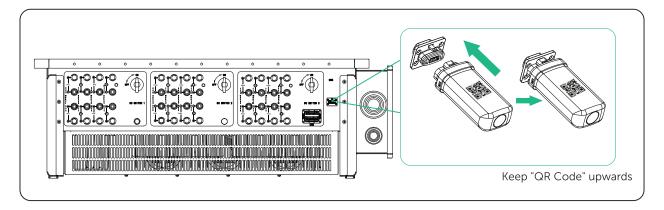


### • Pin definition

Function	Pin	Definition	Remark		
	1	RS485A IN+	For inverter RS485 networking or		
RS485-1	2	RS485B IN-			
	3	RS485 IN-GND			
	4	RS485 OUT+	connecting the data		
	5	RS485 OUT-	collector		
	6	RS485 OUT-GND			
RS485-2	7	RS485A METER	5 DC 105		
	8	RS485B METER	For connecting RS485		
	9	V+5V	meter or other devices		
	10	COM_GND	devices		
	11	DRM1/5			
	12	DRM2/6	Reserved for DRM		
DRM	13	DRM3/7			
	14	DRM4/8			
	15	RG/0			
	16	CL/0			
DI	21	Digital IN+	Input		
	22	Digital IN-	digital signal		
DO	29	Digital OUT+	Output		
DO	30	Digital OUT-	digital signal		

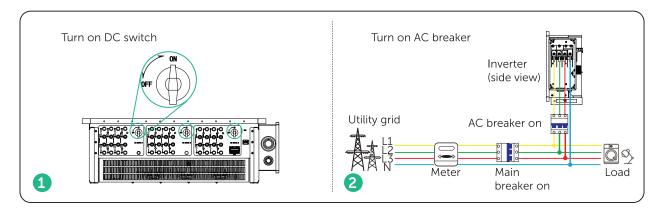


Monitoring Connection / Überwachungs-Anschluss / Branchement de surveillance / Conexión de monitorización / Ligação à Monitorização / Monitoring-aansluiting / Collegamento monitoraggio / Połączenie na potrzeby monitorowania / Připojení ke sledování / Övervakningsanslutning / Conexiune de monitorizare / Μομμτορμητοβα 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

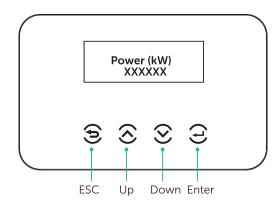


Power on the System / Schalten Sie das System ein / Mise sous tension du système / Encienda el sistema / Ligue o sistema / Het systeem inschakelen / Accensione del sistema / Włączanie systemu / Zapnutí systému / Slå på systemet / Pornire sistem / Βκπουβαμε μα системата / Tænd for systemet / Ρεύμα στο σύστημα / Süsteemi sisselülitamine / Kytke järjestelmän virta päälle / Napajanje sustava / Rendszer áram alá helyezése / Įjungti sistemą / Ieslēdziet sistēmu / Zapnite system / Vklopite sistem / Sistemin Gücü / Ligar o Sistema

- Check before power-on
  - 1) The device is installed correctly and securely;
  - 2) All the DC breakers and AC breakers are OFF;
  - 3) All AC cables are connected correctly and securely;
  - 4) All DC cables are connected correctly and securely;
  - 5) All communication cables are connected correctly and securely;
  - 6) All the connectors which are not used should be sealed by covers.
  - 7) Make sure the PV module output is well insulated to ground;
  - 8) Make sure all PV modules should be of the same type, same model, same number, aligned and tilted identically;
  - 9) Make sure the open circuit voltage of the PV string shall not exceed 800 V (for 40 kW-70 kW inverter) and 1100 V (for 75 kW- 150 kW inverter) at the coldest expected temperature in time.
- Power on the system



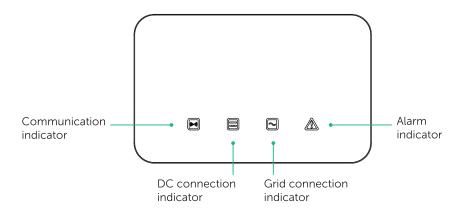
LCD Panel / LCD-Bildschirm / Panneau LCD / Panel LCD / Painel de LCD / LCD-paneel / Pannello LCD / Panel LCD / LCD panel / LCD-panel / Panou cu LCD / LCD παμεπ / LCD-panel / Πάνελ LCD / LCD-paneel / LCD-paneeli / LCD ploča / LCD panel / LCD skydas /LCD panelis / LCD Panel / LCD plošča / LCD Panel / Painel LCD



- In normal state, the "Power", "TodayEnergy", "TotalEnergy" and "Status" information will be displayed. You can press the keys to switch information.
- In error state, the fault message and error code will be displayed, please refer to the corresponding solutions in the user manual.

Кеу	Definition	
ESC key	Exit from the current interface or cancel the setting	
Up key	Move the cursor to the previous option or increase the value	
Down key	Move the cursor to the next option or decrease the value	
Enter key	Enter the selected option or confirm the selection	

LED Indicators / LED-Indikatoren / Indicateurs LED / Indicadores LED / Indicadores LED / LED-indicatoren / Indicatori LED / Wskaźniki LED / LED indikátory / LED-indikatorer / Indicatori LED / LED индикатори / LED-indikatorer / Ενδεικτικές λυχνίες LED / LED-indikatorid / LED-merkkivalot / LED pokazatelji / LED kijelzők / LED indikatoriai /LED indikátory / LED kazalniki



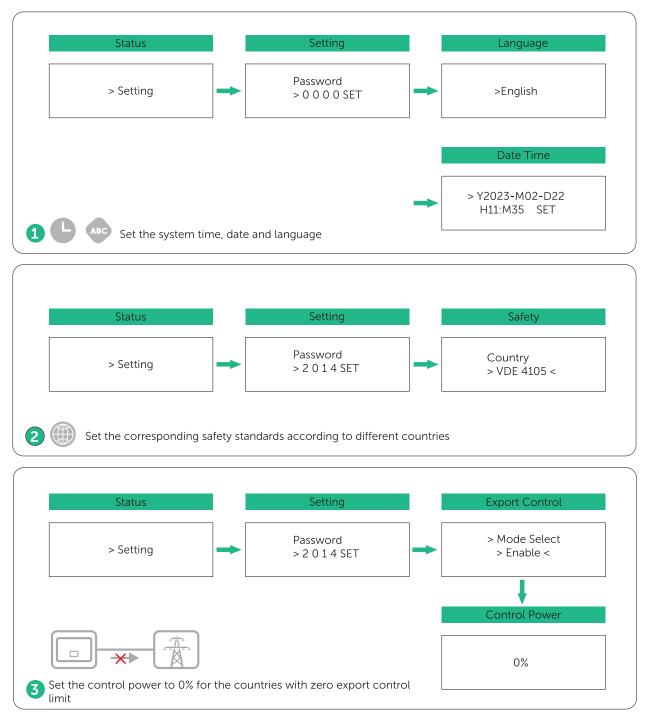
LED	Status	Definition
Communication	On	The inverter communication is normal.
indicator (Blue)	Flash	No communication data is sent or received for a long time.
	On	The inverter is in grid-connected state.
DC connection indicator (Green)	Flash	Alarm indicator on: Errors occur on the inverter DC side. Alarm indicator off: No errors occur on the inverter DC side and at least one channel of MPPT input voltage is higher than 200 V.
	Off	The input voltage of all channels of MPPT is less than 200 V; Or DC switch is not turned on.
	On	The inverter is in grid-connected state.
Grid connection indicator (Green)	Flash	Alarm indicator on: Errors occur on the inverter AC side. Alarm indicator off: AC grid is connected and the inverter is not in grid-connected state.
	Off	The inverter is not connected to the grid.
Alarm indicator	On	Errors occur on the inverter.
(Red)	Off	No errors occur on the inverter.

#### \* Note:

In aging mode, alarm indicator is flashing and other indicators keep the current state; In software upgrading state, all the indicators are blinking by horse-racing LED in circle; When the software upgrading fails, the alarm indicaotr turns on and other three indicators will be off;

After the inverter upgrade succeeded, all the indicators will be off.

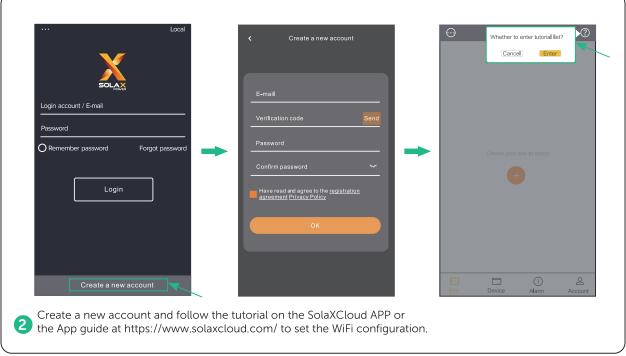
General Setting / Allgemeine Einstellungen / Paramètres généraux / Configuración general / Definição Geral / Algemene instelling / Impostazione generale / Ustawienia ogólne / Obecné nastavení / Generell inställning / Setare general / Οδща настройка / Generel indstilling / Γενική τοποθέτηση / Üldine seadistus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



<sup>\*</sup> **Note**: The initial password is 2014 which should be changed for the consideration of account security.

Wi-Fi Configuration / WLAN-Konfiguration / Configuration Wi-Fi / Configuración de wifi / Configuração de Wi-Fi/Wi-Fi-configuratie / Configurazione del Wi-Fi / Konfiguracja Wi-Fi / Konfigurace Wi-Fi / Wi-Fi-konfiguration / Configurare Wi-Fi / Wi-Fi κομφιτγραμισ / WiFi-konfiguration / Ρυθμίσεις παραμέτρων Wi-Fi / Wi-Fi konfiguration / Wi-Fi konfiguracija Wi-Fi mreže / Wi-Fi konfiguracija / Wi-Fi konfiguracija / Konfiguracija Wi-Fi / Konfiguracija / Wi-Fi / Wi-Fi Yapılandırması / Configuração Wi-Fi







<sup>\*</sup> **Note**: Configure the inverter parameters such as Date, Time, Safety, Export Control, ect. by SolaXCloud App.