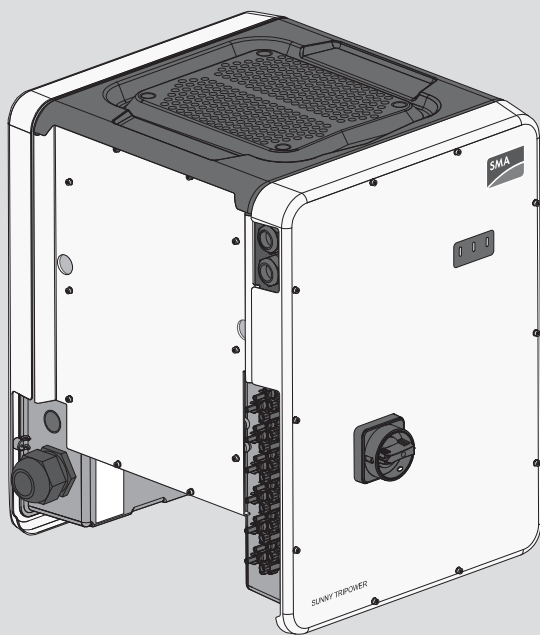


# SUNNY TRIPOWER CORE1

STP 50-40



eManual



STP50-40-IS-xx-16 | 110443-00.05 | Version 1.6

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You can download the current warranty conditions from the Internet at [www.SMA-Solar.com](http://www.SMA-Solar.com).

### Software Licenses

The licenses for the installed software modules (open source) can be found in the user interface of the product.

### Trademarks

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### SMA Solar Technology AG

Sonnenallee 1

34266 Niestetal

Germany

Tel. +49 561 9522-0

Fax +49 561 9522-100

[www.SMA.de](http://www.SMA.de)

Email: [info@SMA.de](mailto:info@SMA.de)

Status: 11/8/2019

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# 1 Information on this Document

## 1.1 Validity

This document is valid for:

- STP 50-40 (Sunny Tripower CORE1) from firmware version  $\geq$  3.00.00.R

## 1.2 Target Group

The tasks described in this document must only be performed by qualified persons. Qualified persons must have the following skills:

- Knowledge of how an inverter works and is operated
- Training in how to deal with the dangers and risks associated with installing, repairing and using electrical devices and installations
- Training in the installation and commissioning of electrical devices and installations
- Knowledge of all applicable laws, standards and directives
- Knowledge of and compliance with this document and all safety information

## 1.3 Content and Structure of this Document




This document contains safety information as well as graphical instructions on installing and commissioning (see page 225). Observe all information and carry out the actions illustrated graphically in this document in the specified order.

The latest version of this document and the comprehensive manual for installation, commissioning, configuration and decommissioning are to be found in PDF format and as eManual at [www.SMA-Solar.com](http://www.SMA-Solar.com). You will find the QR code that links to the eManual on the title page of this document. You can also call up the eManual via the user interface of the product.



Illustrations in this document are reduced to the essential information and may deviate from the real product.

## 1.4 Levels of Warning Messages

The following levels of warning messages may occur when handling the product.

 <b>DANGER</b>
Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
 <b>WARNING</b>
Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
 <b>CAUTION</b>
Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
<b>NOTICE</b>
Indicates a situation which, if not avoided, can result in property damage.

## 1.5 Symbols in the Document

Symbol	Explanation
	Information that is important for a specific topic or goal, but is not safety-relevant
	Section in which the installation and commissioning process is illustrated graphically.

## 2 Safety

### 2.1 Intended Use

The Sunny Tripower is a transformerless PV inverter, with 6 MPP trackers, that converts the direct current of the PV array to grid-compliant, three-phase current and feeds it into the utility grid.

The product is suitable for indoor and outdoor use.

The product must only be operated with PV modules of protection class II in accordance with IEC 61730, application class A. The PV modules must be compatible with this product.

The product is not equipped with an integrated transformer and therefore has no galvanic isolation. The product must not be operated with PV modules whose outputs are grounded. This can cause the product to be destroyed. The product may be operated with PV modules whose frame is grounded.

PV modules with a high capacity to ground must only be used if their coupling capacity does not exceed 12.6  $\mu\text{F}$  (for information on how to determine the coupling capacity, see the Technical Information "Leading Leakage Currents" at [www.SMA-Solar.com](http://www.SMA-Solar.com)).

All components must remain within their permitted operating ranges and their installation requirements at all times.

The product must only be used in countries for which it is approved or released by SMA Solar Technology AG and the grid operator.

Use SMA products only in accordance with the information provided in the enclosed documentation and with the locally applicable laws, regulations, standards and directives. Any other application may cause personal injury or property damage.

Alterations to the SMA products, e.g., changes or modifications, are only permitted with the express written permission of SMA Solar Technology AG. Unauthorized alterations will void guarantee and warranty claims and in most cases terminate the operating license. SMA Solar Technology AG shall not be held liable for any damage caused by such changes.

Any use of the product other than that described in the Intended Use section does not qualify as the intended use.

The enclosed documentation is an integral part of this product. Keep the documentation in a convenient, dry place for future reference and observe all instructions contained therein.

This document does not replace and is not intended to replace any local, state, provincial, federal or national laws, regulations or codes applicable to the installation, electrical safety and use of the product. SMA Solar Technology AG assumes no responsibility for the compliance or non-compliance with such laws or codes in connection with the installation of the product.

The type label must remain permanently attached to the product.

## 2.2 IMPORTANT SAFETY INSTRUCTIONS

### SAVE THESE INSTRUCTIONS

This section contains safety information that must be observed at all times when working.

The product has been designed and tested in accordance with international safety requirements. As with all electrical or electronical devices, there are residual risks despite careful construction. To prevent personal injury and property damage and to ensure long-term operation of the product, read this section carefully and observe all safety information at all times.

#### DANGER

##### **Danger to life due to electric shock when live components or DC cables are touched**

When exposed to light, the PV modules generate high DC voltage which is present in the DC cables. Touching live DC cables results in death or lethal injuries due to electric shock.

- Do not touch non-insulated parts or cables.
- Disconnect the product from voltage sources and make sure it cannot be reconnected before working on the device.
- Do not disconnect the DC connectors under load.
- Wear suitable personal protective equipment for all work on the product.

#### DANGER

##### **Danger to life due to electric shock when touching live system components in case of a ground fault**

If a ground fault occurs, parts of the system may still be live. Touching live parts and cables results in death or lethal injuries due to electric shock.

- Disconnect the product from voltage sources and make sure it cannot be reconnected before working on the device.
- Touch the cables of the PV array on the insulation only.
- Do not touch any parts of the substructure or frame of the PV array.
- Do not connect PV strings with ground faults to the inverter.

**⚠ DANGER****Danger to life due to electric shock in case of overvoltages and if surge protection is missing**

Overvoltages (e. g. in the event of a flash of lightning) can be further conducted into the building and to other connected devices in the same network via the network cables or other data cables if there is no surge protection. Touching live parts and cables results in death or lethal injuries due to electric shock.

- Ensure that all devices in the same network are integrated in the existing overvoltage protection.
- When laying the network cable outdoors, ensure that there is suitable surge protection at the network cable transition from the product outdoors to the network inside the building.
- The Ethernet interface of the inverter is classified as "TNV-1" and offers protection against overvoltages of up to 1.5 kV.

**⚠ WARNING****Danger to life due to fire or explosion**

In rare cases, an explosive gas mixture can be generated inside the inverter under fault conditions. In this state, switching operations can cause a fire inside the inverter or explosion. Death or lethal injuries due to hot or flying debris can result.

- In the event of a fault, do not perform any direct actions on the inverter.
- Ensure that unauthorized persons have no access to the inverter.
- Do not operate the DC load-break switch on the inverter in the event of ground fault
- Disconnect the PV array from the inverter via an external disconnection device. If there is no disconnecting device present, wait until no more DC power is applied to the inverter.
- Disconnect the AC circuit breaker, or keep it disconnected in case it has already tripped, and secure it against reconnection.
- Only perform work on the inverter (e.g., troubleshooting, repair work) when wearing personal protective equipment for handling of hazardous substances (e.g., safety gloves, eye and face protection, respiratory protection).

**⚠ WARNING****Risk of injury due to toxic substances, gases and dusts.**

In rare cases, damages to electronic components can result in the formation of toxic substances, gases or dusts inside the inverter. Touching toxic substances and inhaling toxic gases and dusts can cause skin irritation, burns or poisoning, trouble breathing and nausea.

- Only perform work on the inverter (e.g., troubleshooting, repair work) when wearing personal protective equipment for handling of hazardous substances (e.g., safety gloves, eye and face protection, respiratory protection).
- Ensure that unauthorized persons have no access to the inverter.

**⚠ WARNING****Danger to life due to electric shock from destruction of the measuring device due to overvoltage**

Overvoltage can damage a measuring device and result in voltage being present in the enclosure of the measuring device. Touching the live enclosure of the measuring device results in death or lethal injuries due to electric shock.

- Only use measuring devices with a DC input voltage range of 1000 V or higher.

**⚠ CAUTION****Risk of burns due to hot enclosure parts**

The enclosure and the enclosure lid may get hot during operation. The DC load-break switch can not become hot.

- Do not touch hot surfaces.
- Wait until the inverter has cooled down before touching the enclosure or enclosure lid.

**⚠ CAUTION****Risk of injury due to weight of product**

Injuries may result if the product is lifted incorrectly or dropped while being transported or mounted.

- Carry and lift the product upright with the help of several people. Take the weight and the center of gravity of the product into account. The center of gravity is on the side of the AC-Connection Unit.
- Wear suitable personal protective equipment for all work on the product.
- Transport the product using the carrying handles or hoist. Take the weight of the product into account.
- Use all carrying handles provided during transport with carrying handles.
- Do not use the carrying handles as attachment points for hoist equipment (e.g. straps, ropes, chains). Insert eye bolts into threads provided on top of the product to attach the hoist system.

**NOTICE****Damage to the enclosure seal in subfreezing conditions**

If you open the product when temperatures are below freezing, the enclosure seals can be damaged. Moisture can penetrate the product and damage it.

- Only open the product if the ambient temperature is not below -5 °C.
- If a layer of ice has formed on the enclosure seal when temperatures are below freezing, remove it prior to opening the product (e.g. by melting the ice with warm air).



**NOTICE****Damage to the product due to sand, dust and moisture ingress**

Sand, dust and moisture penetration can damage the product and impair its functionality.

- Only open the product if the humidity is within the thresholds and the environment is free of sand and dust.
- Do not open the product during a dust storm or precipitation.
- Close tightly all enclosure openings.

**NOTICE****Damage due to cleaning agents**

The use of cleaning agents may cause damage to the product and its components.

- Clean the product and all its components only with a cloth moistened with clear water.

**NOTICE****Damage to the inverter due to electrostatic discharge**

Touching electronic components can cause damage to or destroy the inverter through electrostatic discharge.

- Ground yourself before touching any component.

**NOTICE****High costs due to inappropriate Internet tariff**













Depending on use, the data volume of the product transferred via the Internet may vary in size. The data volume depends, for example, on the number of inverters in the system, the frequency of device updates, the frequency of data transfer to Sunny Portal or the use of FTP push. High costs for the Internet connection can be the result.








- SMA Solar Technology AG recommends using an Internet flat rate.

**i** **Change to the names and units of grid parameters to comply with the grid-connection requirements in accordance with Regulation (EU) 2016/631 (valid from April 27, 2019)**

To comply with the EU grid-connection requirements (valid from April 27, 2019) the names and units of grid parameters were changed. This change is valid from firmware version  $\geq 3.00.00.R$  if a country data set for fulfilling the EU grid-connection requirements (valid from 2019-04-27) is set. Names and units of grid parameters for inverters with firmware version  $\leq 2.99.99.R$  are not affected by this change and remain valid. This also applies from firmware version  $\geq 3.00.00.R$  if a country data set that is valid for countries outside the EU is set.

### 3 Symbols on the Product

Symbol	Explanation
	Beware of a danger zone This symbol indicates that the product must be additionally grounded if additional grounding or equipotential bonding is required at the installation site.
	Beware of electrical voltage The product operates at high voltages.
	Beware of hot surface The product can get hot during operation.
	Observe the documentation Observe all documentation supplied with the product.
	Observe the documentation Together with the red LED, this symbol indicates an error.
	Inverter Together with the green LED, this symbol indicates the operating state of the inverter.
	Data transmission Together with the blue LED, this symbol indicates the status of the network connection.
	Grounding conductor This symbol indicates the position for connecting a grounding conductor.
	Grounding This symbol indicates the position for the connection of an additional grounding conductor.
	Three-phase alternating current with neutral conductor
	Direct current
	The product is has no galvanic isolation.

Symbol	Explanation
	<p>WEEE designation</p> <p>Do not dispose of the product together with the household waste but in accordance with the disposal regulations for electronic waste applicable at the installation site.</p>
	The product is suitable for outdoor installation.
<b>IP65</b>	<p>Degree of protection IP65</p> <p>The product is protected against the penetration of dust and water that is directed as a jet against the enclosure from all directions.</p>
	<p>CE marking</p> <p>The product complies with the requirements of the applicable EU directives.</p>
	<p>RoHS labeling</p> <p>The product complies with the requirements of the applicable EU directives.</p>
	<p>ICASA</p> <p>The product complies with the requirements of the South African standards for telecommunication.</p>
	<p>ANATEL</p> <p>The product complies with the requirements of the Brazilian standards for telecommunication.</p> <p>Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.</p>
	The product complies with the Moroccan safety and EMC requirements for electronic products.

## 4 EU Declaration of Conformity

within the scope of the EU directives

- Electromagnetic compatibility 2014/30/EU (29.3.2014 L 96/79-106) (EMC)
- Low Voltage Directive 2014/35/EU (29.3.2014 L 96/357-374) (LVD)
- Radio Equipment Directive 2014/53/EU (22.5.2014 L 153/62) (RED)
- Restriction of the use of certain hazardous substances 2011/65/EU (L 174/88, June 8, 2011) and 2015/863/EU (L 137/10, March 31, 2015) (RoHS)

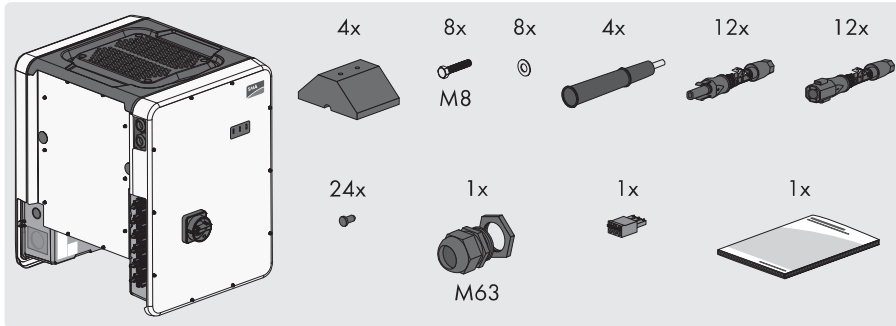


SMA Solar Technology AG confirms herewith that the products described in this document are in compliance with the fundamental requirements and other relevant provisions of the above-mentioned directives. The entire EU Declaration of Conformity can be found at [www.SMA-Solar.com](http://www.SMA-Solar.com).

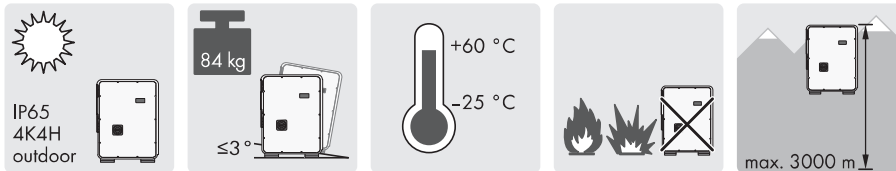
# Instructions



**en** Scope of Delivery **de** Lieferumfang **bg** Обхват на доставката **cs** Obsah dodávky  
**da** Leveringsomfang **el** Παραδιδόμενος εξοπλισμός **es** Contenido de la entrega  
**et** Tarnekomplekt **fi** Toimituksen sisältö **fr** Contenu de la livraison **hr** Opseg isporuke **hu** A csomag tartalma **it** Contenuto della fornitura **lt** Pristatomas komplektas **lv** Piegādes komplekts  
**nl** Leveringsomvang **pl** Zakres dostawy **pt** Material fornecido **ro** Setul de livrare **sk** Objem dodávky **sl** Obseg dobave **sv** Leveransomfattning

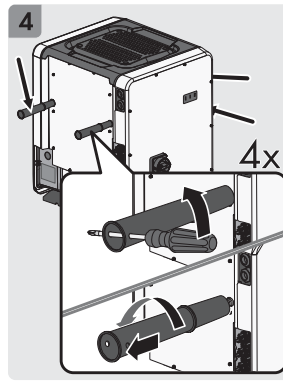
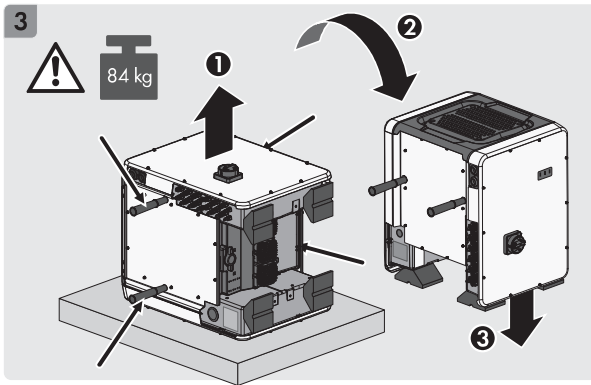
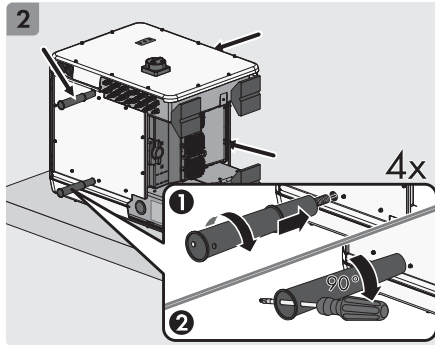
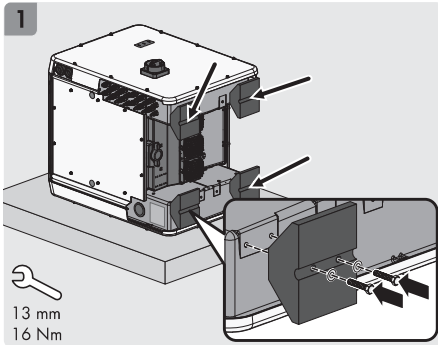
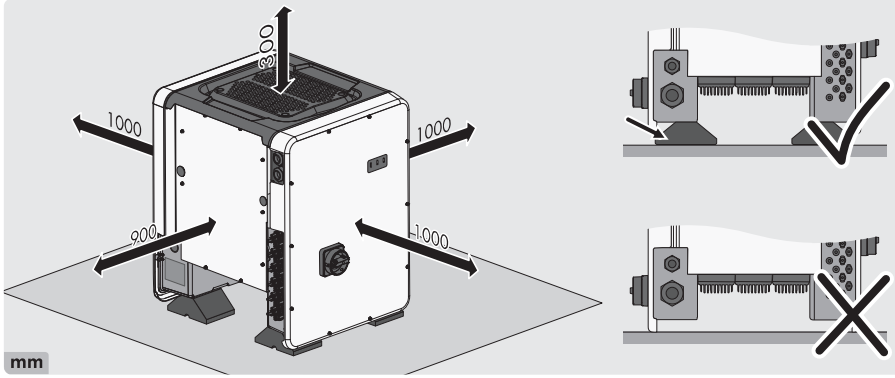


**en** Mounting location **de** Montageort **bg** Място на монтажа **cs** Místo montáže  
**da** Monteringssted **el** Σημείο εγκατάστασης **es** Lugar de montaje **et** Paigalduskoht  
**fi** Asennuspaikka **fr** Lieu de montage **hr** Mjesto montaže **hu** Felszerelés helye **it** Luogo di montaggio  
**lt** Montavimo vieta **lv** Montāžas vieta **nl** Montagelocatie **pl** Miejsce montażu  
**pt** Local de montagem **ro** Locul de montaj **sk** Miesto montáže **sl** Mesto montaže  
**sv** Monteringsplats

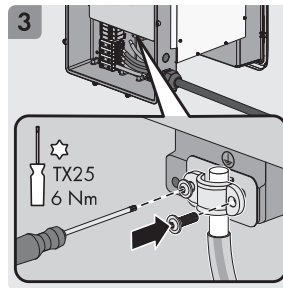
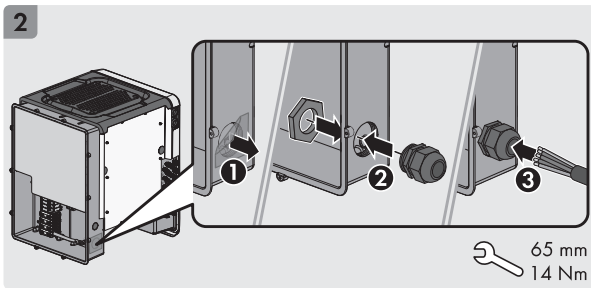
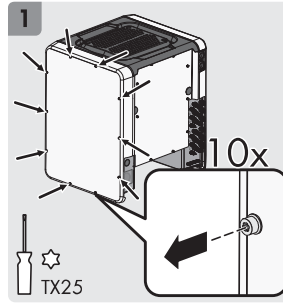
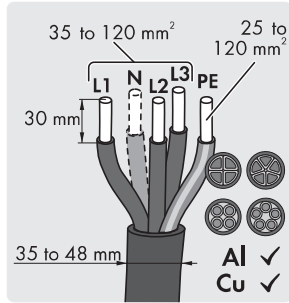
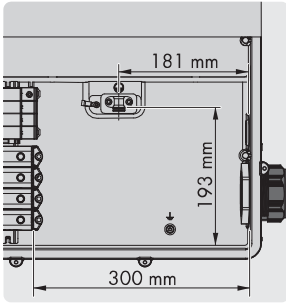
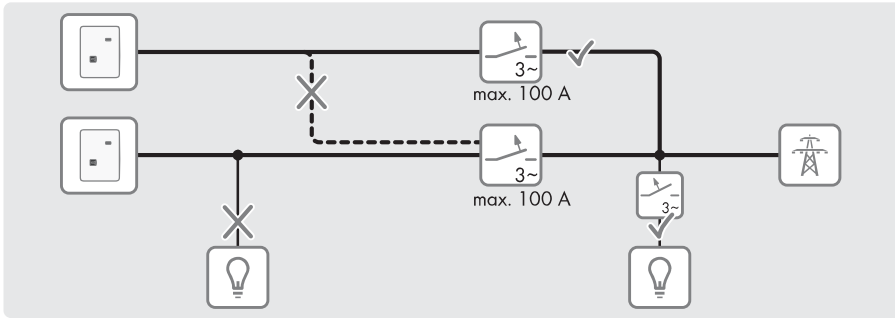


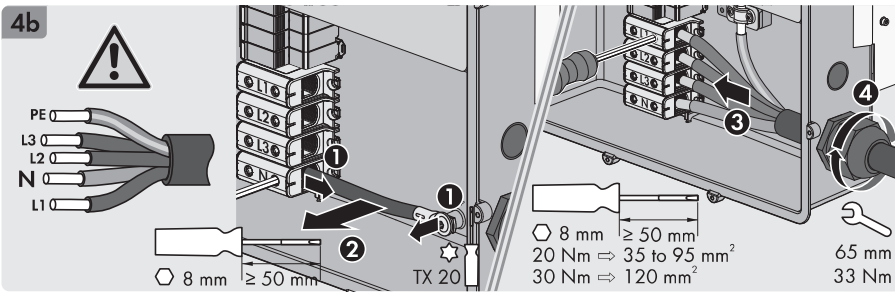
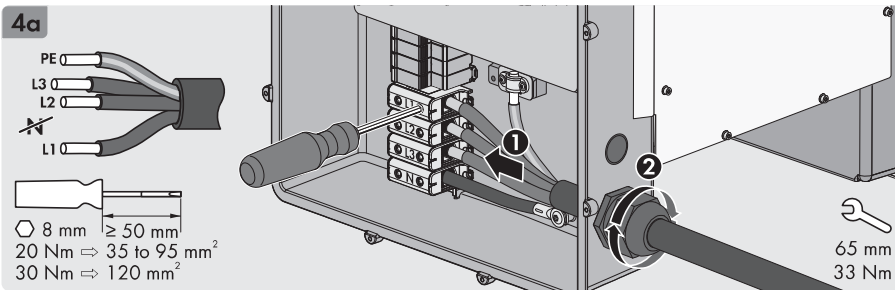


en Mounting de Montage bg Монтаж cs Montáž da Montering el Εγκατάσταση  
es Montaje et Monteerimine fi Asennus fr Montage hr Montaža hu Felszerelés  
it Montaggio lt Montavimas lv Montāža nl Montage pl Montaż pt Montagem  
ro Montajul sk Montáž sl Montaža sv Montering



en AC Connection de AC-Anschluss bg Свързване на променливия ток cs AC připojení  
 da AC-tilslutning el Σύνδεση AC es Conexión de CA et Toiteühendus fi AC-liitäntä  
 fr Raccordement AC hr AC-priključak hu AC-csatlakoztatás it Collegamento CA  
 lt Kintamosios srovės jungtis lv Maiņstrāvas pieslēgums nl AC-aansluiting pl Przyłącze AC  
 pt Ligação CA ro Conexiune AC sk Prípojka pre striedavý prúd si Priključek AC  
 sv Växelströmsanslutning

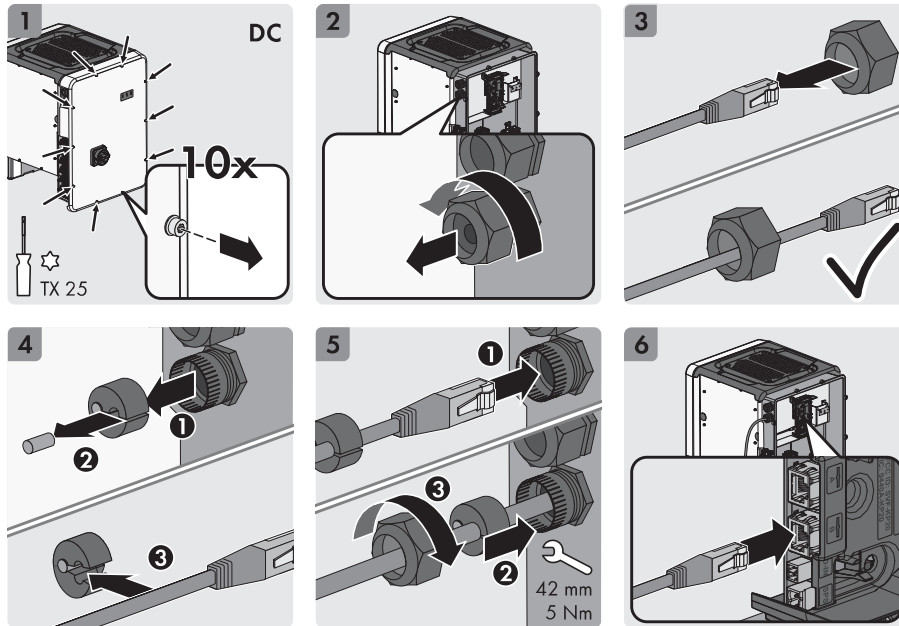




AC	STP 50-40
$P_{AC}$ (@ 230 V, 50 Hz)	50000 W
$S_{AC}$ (@ $\cos \varphi = 1$ )	50000 VA
$V_{AC,r}$	400 V / 230 V
$V_{AC, range}$	202 V to 264 V
$I_{AC,r}$ (@ 230 V)	72.5 A
$I_{AC,max}$	72.5 A
$f_{AC}$	50 Hz / 60 Hz
$\cos \varphi$	0.0 overexcited to 0.0 underexcited

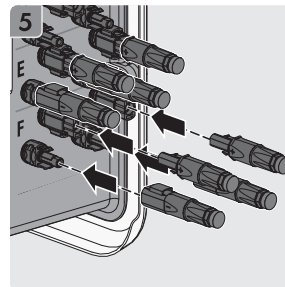
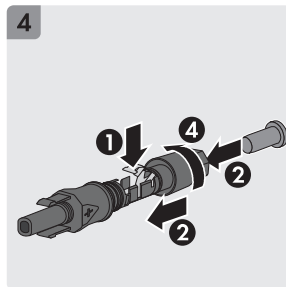
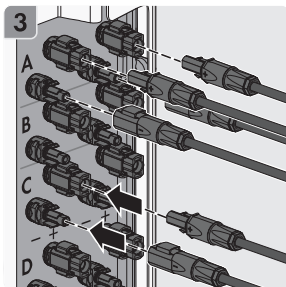
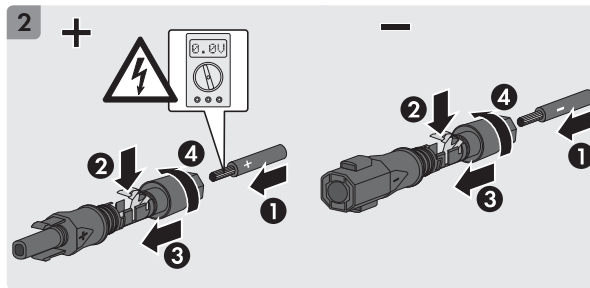
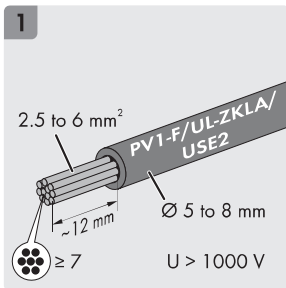
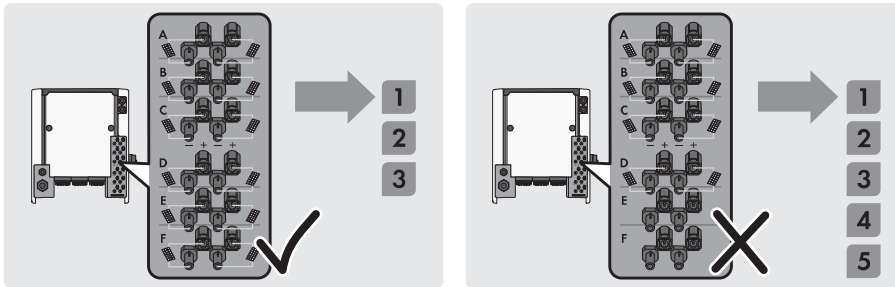
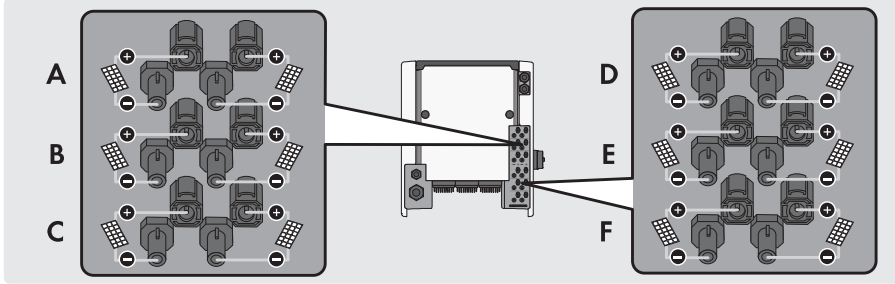


**en** Connecting the network **de** Netzwerk anschließen **bg** Свързване към мрежата  
**cs** Připojení datové sítě **da** Tilslutning af netværk **el** Σύνδεση δικτύου **es** Conexión de la red  
**et** Elektrivõrku ühendamine **fi** Verkon liittäminen **fr** Connexion au réseau **hr** Povezivanje mreže  
**hu** Hálózati csatlakoztatás **it** Collegamento della rete **lt** Tinklo prijungimas **lv** Tikla sakaru kabēļa pievienošana  
**nl** Network aansluiten **pl** Podłączenie sieci **pt** Ligar rede **ro** Conectare rețea  
**sk** Pripojenie k sieti **sl** Priključitev na električno omrežje **sv** Ansluta nätverk





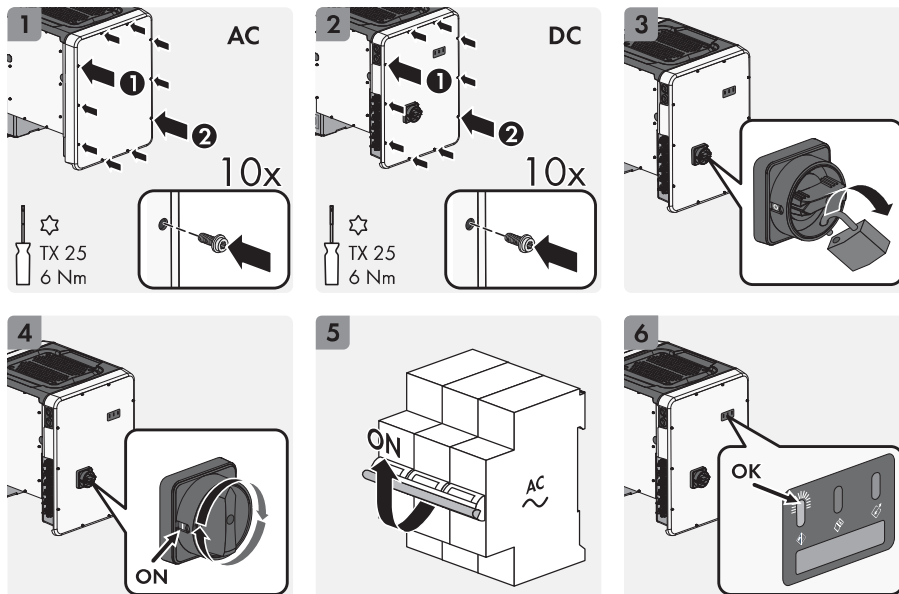
en DC Connection de DC-Anschluss bg Свързване на постоянен ток cs DC připojení  
 da DC-tilslutning el Σύνδεση DC es Conexión de CC et Alalisvoolühendus fi DC-liitäntä  
 fr Raccordement DC hr DC-priključak hu DC-csatlakoztatás it Collegamento CC  
 lt Nuolatinės srovės jungtis lv Līdzstrāvas pieslēgums nl DC-aansluiting pl Przyłącze DC  
 pt Ligação CC ro Conexiune DC sk DC prípojka sl Priključek DC sv Likströmsanslutning



DC	STP 50-40
Max. generator power	75000 W <sub>p</sub> STC
V <sub>DC, max</sub>	1000 V
V <sub>DC, MPP</sub>	500 V to 800 V
I <sub>DC, max</sub>	20 A
I <sub>SC PV</sub>	30 A

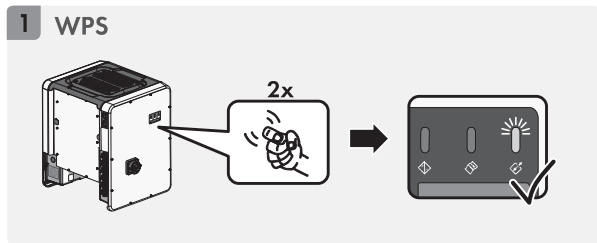
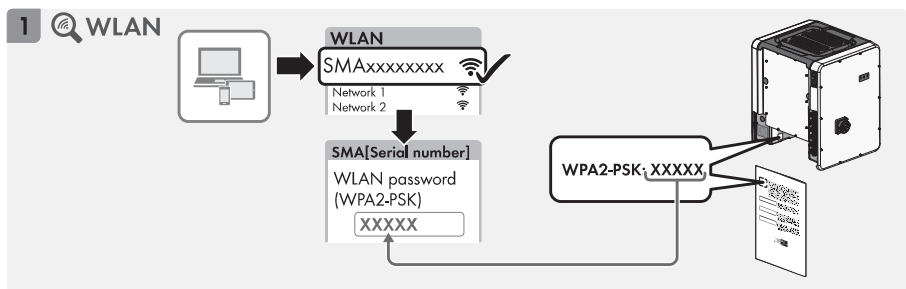
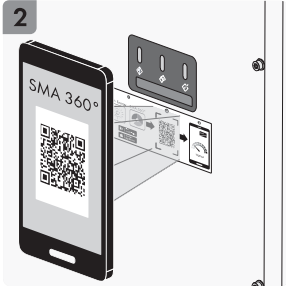


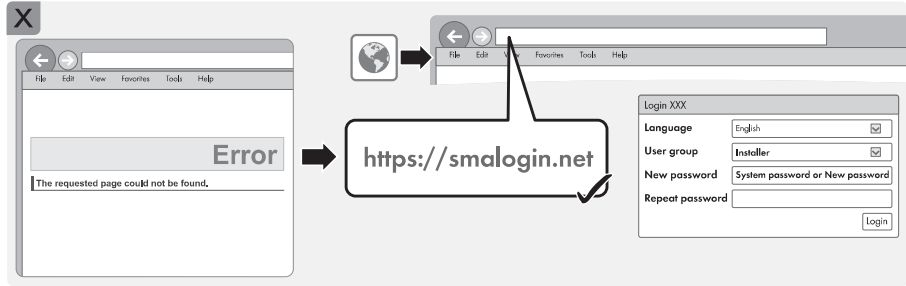
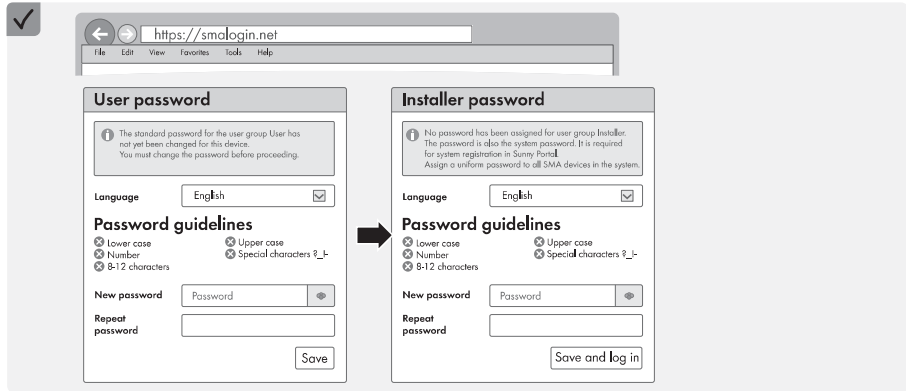
**en** Commissioning **de** Inbetriebnahme **bg** Пускане в експлоатация **cs** Uvedení do provozu  
**da** Idriftsætelse **el** Θέση σε λειτουργία **es** Puesta en marcha **et** Kasutusselevõtt  
**fi** Käyttöönotto **fr** Mise en service **hr** Puštanje u pogon **hu** Üzembe helyezés **it** Messa in  
servizio **lt** Eksploatavimo pradžia **lv** Eksploatācijas sākšana **nl** Inbedrijfstelling  
**pl** Uruchomienie **pt** Colocação em serviço **ro** Punerea în funcțiune **sk** Uvedenie do  
prevádzky **sl** Zagon **sv** Idrifttagning





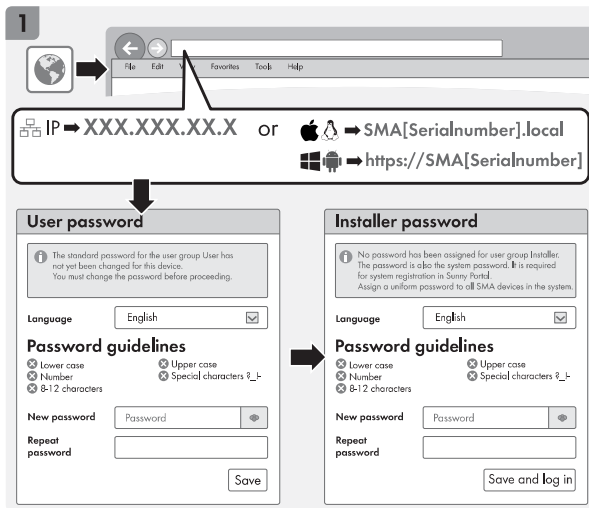
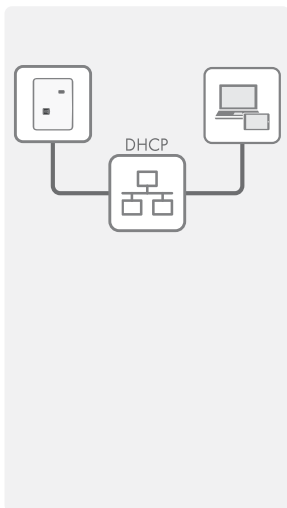
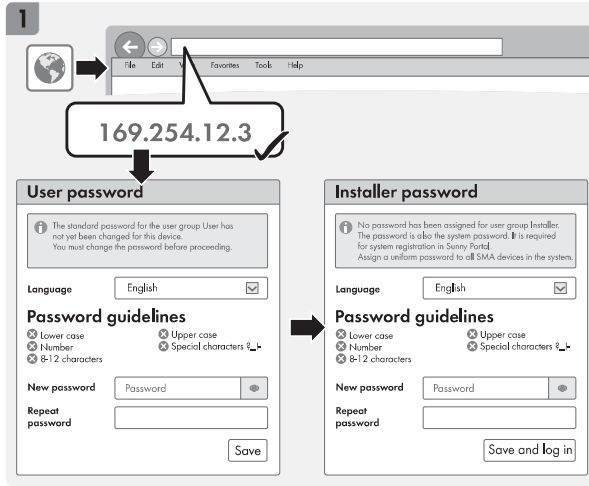
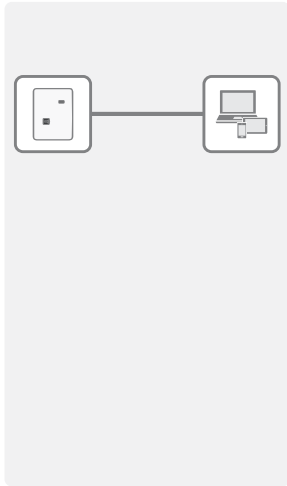
**en** Accessing the user interface via WLAN **de** Benutzeroberfläche via WLAN aufrufen  
**bg** Извикване на потребителския интерфейс през WLAN **cs** Připojení k uživatelskému rozhraní pomocí WLAN **da** Hentning af brugeroverflade via WLAN **el** Άνοιγμα επιφάνειας εργασίας μέσω WLAN **es** Acceso a la interfaz de usuario mediante WLAN **et** Kasutajaliidese avamine WLANi kaudu **fi** Käyttöliittymän avaaminen WLAN-yhteyden kautta **fr** Affichage de l'interface utilisateur via le réseau local sans fil (WLAN) **hr** Korisničku površinu otvarajte preko WLAN **hu** A felhasználói felület csatlakoztatása WLAN (wifi) által **it** Richiamare l'interfaccia utente via WLAN **lt** Atidaryti vartotojo sąsają per WLAN **lv** Lietotāja saskarnes atvēršana, izmantojot WLAN **nl** Gebruikersinterface via WLAN aanroepen **pl** Wywołanie interfejsu użytkownika przez WLAN **pt** Aceder à interface de utilizador através de WLAN. **ro** Apelarea interfeței utilizatorului prin WLAN **sk** Vyvolanie používateľského rozhrania pomocou WLAN **sl** Zagon uporabniškega vmesnika prek WLAN **sv** Öppna användargränssnitt via WLAN



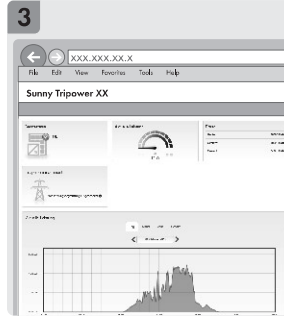
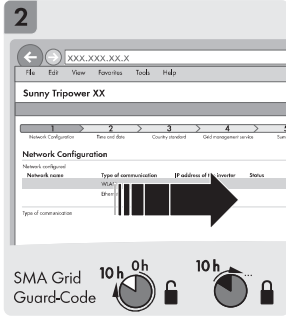
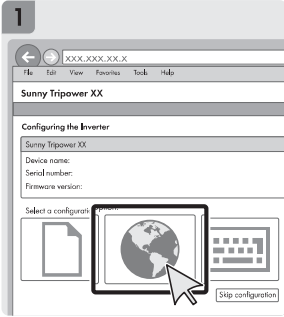




**en** Accessing the user interface via LAN **de** Benutzeroberfläche via LAN aufrufen  
**bg** Извикване на потребителския интерфейс през LAN **cs** Připojení k uživatelskému rozhraní pomocí LAN  
**da** Hentning af brugeroverflade via LAN **el** Άνοιγμα επιφάνειας εργασίας μέσω LAN  
**es** Acceso a la interfaz de usuario mediante LAN **et** Kasutajaliidese avamine LANi kaudu  
**fi** Käyttöliittymän avaaminen LAN-yhteyden kautta **fr** Affichage de l'interface utilisateur via le réseau local (LAN)  
**hr** Korisničku površinu otvarajte preko LAN **hu** A felhasználói felület csatlakoztatása LAN által  
**it** Richiamare l'interfaccia utente via LAN **lt** Atidaryti vartotojo sąsają per LAN  
**lv** Lietotāja saskarnes atvēršana, izmantojot LAN **nl** Gebruikersinterface via LAN oproepen  
**pl** Wywołanie interfejsu użytkownika przez LAN **pt** Aceder à interface de utilizador através de LAN  
**ro** Apelarea interfeței utilizatorului prin LAN **sk** Vyvolanie používateľského rozhrania pomocou LAN  
**sl** Zagon uporabniškega vmesnika prek LAN **sv** Öppna användargränssnitt via LAN

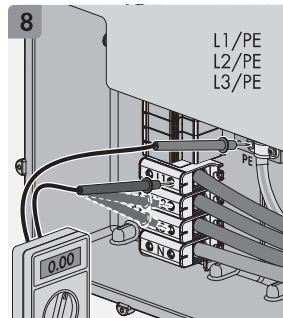
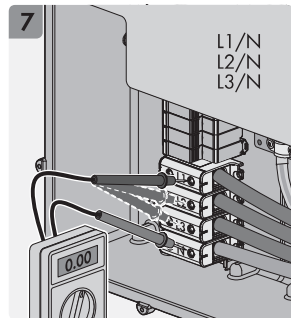
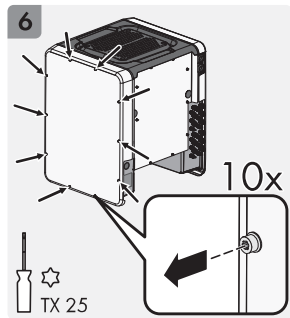
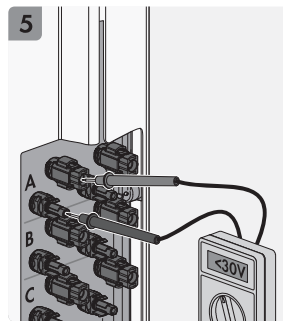
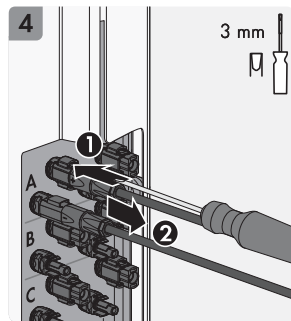
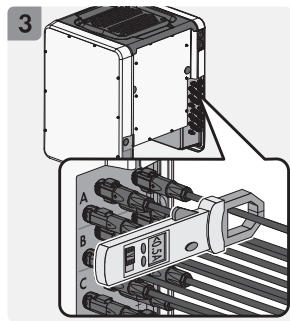
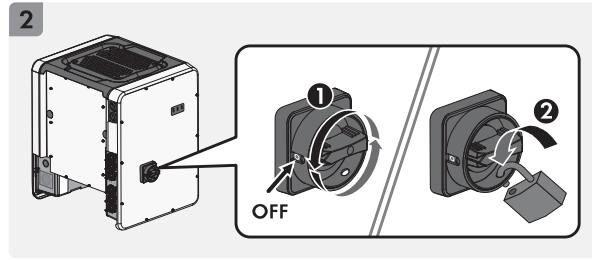
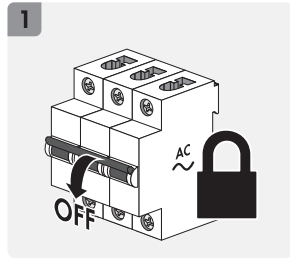


en Configuration de Konfiguration bg Конфигурация cs Konfigurace da Konfiguration  
 el Διαμόρφωση es Configuración et Seadistamine fi Konfigurointi fr Configuration  
 hr Konfiguracija hu Konfiguráció it Configurazione lt Konfigūracija lv Konfigurācija  
 nl Configuratie pl Konfiguracja pt Configuração ro Configurarea sk Konfigurácia  
 sl Konfiguracija sv Konfigurering





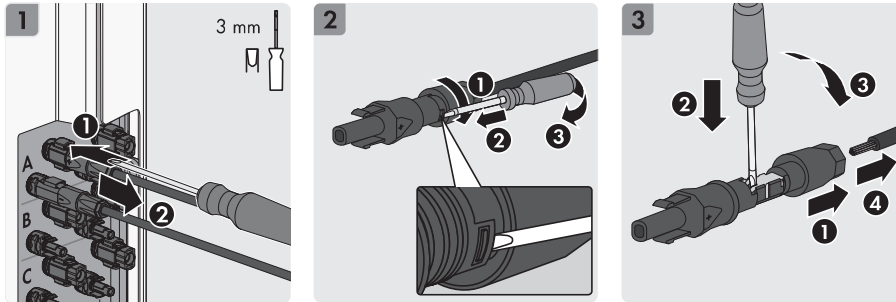
en Disconnect from voltage sources de Freischalten bg Изключване на напрежението  
 cs Odpojení střídače od napětí da Åbning el Απομόνωση από την τάση es Desconexión de  
 la tensión et Lahti ühendamine fi Kytentä jännitteettömäksi fr Mettez hors tension  
 hr Isključivanje hu Az inverter áramtalanítása it Disinserire lt Atblokavimas lv Atbloķēšana  
 nl Vrijschakelen pl Odłączenie pt Seccionar completamente ro Deconectarea  
 sk Spustenie sl Odklop sv Frikoppling







**en** Disassembling the DC Connectors **de** DC-Steckverbinder demontieren **bg** Демонтаж на DC свързващия щепсел **cs** Demontáž DC konektorů **da** Afmontering af AC-stikforbinder **el** Αφαίρεση βύσματος σύνδεσης DC **es** Desmontaje de los conectadores de enchufe de CC **et** Alalisvoolu pistmiku lahtivõtmine **fi** Tasavirtapistokkeen irrotus **fr** Démontage des connecteurs DC **hr** Demontaža DC utičnih spojnika **hu** DC-csatlakozó leszerelése **it** Smontaggio dei terminali CC **lt** DC kištukinės jungties išmontavimas **lv** Līdzstrāvas spraudsavienojuma demontāža **nl** DC-connectoren demonteren **pl** Demontaż wtyków DC **pt** Desmontar os conectores de ficha CC **ro** Demontarea conductorilor DC **sk** Demontáž DC konektora **sl** Demontaža vtičnih priključkov za enosmerni tok **sv** Demontera DC-kontakt



**en** System data **de** System-Daten **bg** Данни на системата **cs** Systémové údaje **da** System-data **el** Στοιχεία συστήματος **es** Datos del sistema **et** Süsteemiandmed **fi** Järjestelmätiedot **fr** Données du système **hr** Podaci o sustavu **hu** Rendszeradatok **it** Dati del sistema **lt** Sistemos duomenys **lv** Sistēmas dati **nl** Systeemgegevens **pl** Dane techniczne systemu **pt** Dados do sistema **ro** Date despre sistem **sk** Systémové údaje **sl** Podatki o sistemu **sv** Systemdata

Topology	transformerless
Overvoltage category in accordance with IEC 60664-1	II (DC), III (AC)
Protection class in accordance with IEC 61140	I
All-pole sensitive residual-current monitoring unit	integrated
Maximum permissible value for relative humidity, condensing	100 %
Extended humidity range according to IEC 60721-3-4	0 % to 100 %
Pollution degree inside the enclosure	2
Pollution degree outside the enclosure	3
Radio technology	WLAN 802.11 b/g/n
Radio spectrum	2.4 GHz



Maximum transmission power

100 mW

Local requirements

NRS 97-2-1: This standard requires a separate label attached to the AC distribution board, which indicates the AC-side disconnection of the inverter in case of a grid failure (for further details, see NRS 97-2-1, Sect. 4.2.7.1 and 4.2.7.2)

AS 4777.2:2015: If DRM support is specified, the inverter may only be used in conjunction with a Demand Response Enabling Device (DRED). The inverter and the Demand Response Enabling Device (DRED) must be connected in the same network and the inverter Modbus interface must be activated and the TCP server set.

[en](#) Contact [de](#) Kontakt [bg](#) Контакти [cs](#) Kontakt [da](#) Kontakt [el](#) Επικοινωνία  
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[ro](#) Contact [sk](#) Kontakt [sl](#) Stik [sv](#) Kontakt

Deutschland	SMA Solar Technology AG	Belgien	SMA Benelux BVBA/SPRL
Österreich	Niestetal	Belgique	Mechelen
Schweiz	Sunny Boy, Sunny Mini Central, Sunny Tripower, Sunny Highpower: +49 561 9522-1499	België	+32 15 286 730
	Monitoring Systems (Kommunikationsprodukte): +49 561 9522-2499	Luxemburg	for Netherlands: +31 30 2492 000
	Hybrid Controller: +49 561 9522-3199	Luxembourg	
	Sunny Island, Sunny Boy Storage, Sunny Backup: +49 561 9522-399	Nederland	SMA Online Service Center: <a href="http://www.SMA-Service.com">www.SMA-Service.com</a>
	Sunny Central, Sunny Central Storage: +49 561 9522-299	Česko	SMA Service Partner TERMS a.s.
	SMA Online Service Center: <a href="http://www.SMA-Service.com">www.SMA-Service.com</a>	Magyarország	+420 387 6 85 111
		Slovensko	SMA Online Service Center: <a href="http://www.SMA-Service.com">www.SMA-Service.com</a>
		Türkiye	SMA Service Partner DEKOM Telekomünikasyon A. Ş. +90 24 22430605
			SMA Online Service Center: <a href="http://www.SMA-Service.com">www.SMA-Service.com</a>
France	SMA France S.A.S. Lyon +33 472 22 97 00	Ελλάδα	SMA Service Partner AKTOR FM.
	SMA Online Service Center : <a href="http://www.SMA-Service.com">www.SMA-Service.com</a>	Κύπρος	Αθήνα +30 210 8184550
			SMA Online Service Center: <a href="http://www.SMA-Service.com">www.SMA-Service.com</a>



España Portugal	SMA Ibérica Tecnología Solar, S.L.U. Barcelona +34 935 63 50 99 SMA Online Service Center: www.SMA-Service.com	United King- dom	SMA Solar UK Ltd. Milton Keynes +44 1908 304899 SMA Online Service Center: www.SMA-Service.com
Italia	SMA Italia S.r.l. Milano +39 02 8934-7299 SMA Online Service Center: www.SMA-Service.com	Australia	SMA Australia Pty Ltd. Sydney Toll free for Australia: 1800 SMA AUS (1800 762 287) International: +61 2 9491 4200
United Arab Emirates	SMA Middle East LLC Abu Dhabi +971 2234 6177 SMA Online Service Center: www.SMA-Service.com	India	SMA Solar India Pvt. Ltd. Mumbai +91 22 61713888
ไทย	SMA Solar (Thailand) Co., Ltd. กรุงเทพฯ +66 2 670 6999	대한민국	SMA Technology Korea Co., Ltd. 서울 +82-2-520-2666
South Africa	SMA Solar Technology South Af- rica Pty Ltd. Cape Town 08600SUNNY (08600 78669) International: +27 (0)21 826 0699 SMA Online Service Center: www.SMA-Service.com	Argentina Brasil Chile Perú	SMA South America SPA Santiago de Chile +562 2820 2101
Other countries	International SMA Service Line Niestetal 00800 SMA SERVICE (+800 762 7378423) SMA Online Service Center: www.SMA-Service.com		

Access data for the registration in Sunny Portal and WLAN password | Zugangsdaten für die Registrierung im Sunny Portal und WLAN-Passwort | Данные за доступ при регистрации в Sunny Portal и WLAN пароля | Přístupové údaje pro registraci na portálu Sunny Portal a heslo pro síť WLAN | Adgangsdata til registrering på Sunny Portal og WLAN-password | Στοιχεία πρόσβασης για την καταχώριση στο Sunny Portal και κωδικός πρόσβασης WLAN | Datos de acceso para registrarse en el Sunny Portal y contraseña WLAN | Ligipääsuandmed registreerimiseks portaali Sunny Portal ja WLAN-salasõna | Hakutiedot Sunny Portal-portaalissa rekisteröintiä ja WLAN-salasanaa varten | Données d'accès pour l'enregistrement sur le Sunny Portal et mot de passe WLAN | Prístupni podaci za registraciju na Sunny Portal i WLAN zaporka | Belépési adatok a Sunny Portal-on való regisztrációhoz és WLAN-jelszó | Dati di accesso per la registrazione su Sunny Portal e password WLAN | Autorizacijos duomenys registruojantis Sunny Portale ir WLAN slaptažodis | Pieejas dati registrācijai Sunny Portālā un WLAN parole | Toegangsgegevens voor de registratie in de Sunny Portal en WLAN-wachtwoord | Dane dostępu w celu rejestracji na Sunny Portal i hasło dostępu do WLAN | Dados de acesso para o registo no Sunny Portal e palavra-passe WLAN | Date de acces pentru înregistrarea în Sunny Portal și parolă WLAN | Přístupové údaje pre registráciu na portáli Sunny Portal a heslo WLAN | Dostupni podatki za registraciju na Sunny Portalu in geslo za WLAN | Information för registrering i Sunny Portal och WLAN-lösenord | Sunny Portal'da kayıt açmak için erişim verileri ve WLAN şifresi | เมาถึงข้อมูลสำหรับการลงทะเบียน Sunny Portal และรหัสผ่าน WLAN

Serial number | Seriennummer | Серийный номер | Sériové číslo | Seriennummer | Αριθμός σειράς | Número de serie | Seerianumber | Sarjanumero | Numéro de série | Serijski broj | Sorozatszám | Numero di serie | Serijos numeris | Serijos numurs | Seriennummer | Numer seryjny | Número de série | Număr serie | Výrobné číslo | Serijska številka | Seriennummer | Seri numarasi | หมายเลขซีรียล

Installer password | Installateurpassword | Пароля за инсталираща програма | Heslo instalčného technika | Installatørpassword | Κωδικός πρόσβασης εγκαταστάτη | Contraseña de instalador | Paigaldaja salasõna | Asentajan salasana | Mot de passe installateur | Zaporka za instalatera | Szerelői jelszó | Password di installatore | Diegėjo slaptažodis | Instalētāja parole | Installateurswachtwoord | Haslo instalatora | Palavra-passe do instalador | Parolă instalator | Heslo instalující osobě | Instalacijsko geslo | Installatörslösenord | Kurucu şifresi | รหัสผ่านของผู้ติดตั้ง

User password | Benutzerpassword | Потребительская пароля | Heslo uživatele | Brugerpassword | Κωδικός χρήστη | Contraseña del usuario | Kasutaja salasõna | Käyttäjän salasana | Mot de passe utilisateur | Korisnička zaporka | Felhasználói jelszó | Password utente | Vartotojo slaptažodis | Lietotāja parole | Gebruikerswachtwoord | Haslo użytkownika | Palavra-passe do utilizador | Parolă utilizator | Použivatelské heslo | Uporabnikovo geslo | Användarlösenord | Kullanıcı şifresi | รหัสผ่านของผู้ใช้