

Quick Start Guide

Fronius Primo GEN24 208-240

3.8 - 10.0 kW

3.8 - 10.0 kW Plus





EN: WARNING!

Operating the equipment incorrectly or poor workmanship can cause serious injury or damage. The inverter may only be installed and commissioned by trained personnel acting in accordance with the technical regulations. Before working with the device, ensure that you have read and understand all the documents provided (both hard copies enclosed with the product and documents provided online).

FR: AVERTISSEMENT!

Les erreurs de commande et les erreurs en cours d'opération peuvent entraîner des dommages corporels et matériels graves. L'installation et la mise en service de l'onduleur ne doivent être effectuées que par du personnel formé à cet effet et dans le cadre des dispositions techniques. Ne travailler avec l'appareil que lorsque tous les documents mis à disposition en annexe, imprimés et en ligne, ont été lus et compris !

ES-MX: ADVERTENCIA!

El manejo incorrecto y los trabajos realizados de forma incorrecta pueden provocar daños personales o materiales graves. La instalación y la puesta en marcha del inversor deben llevarse a cabo exclusivamente por personal formado y en el marco de las disposiciones técnicas. ¡Antes de trabajar con el equipo, leer y comprender todos los documentos adjuntos y puestos a disposición en línea!

FCC

This device complies with Industry Canada licence-exempt RSS standard(s) and part 15 of the FCC Rules. Operation is subject to the following two conditions:

Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Rapid Shutdown

Two different types of rapid shutdown (RSD) can be triggered depending on the configuration and on-site installation:

Via external buttons

One or more external buttons can be installed on the WSD (wired shutdown) interface of the Data communication area on page (→). Pressing one of these buttons triggers the rapid shutdown. The terminals are discharged to < 30 VDC / 8 A / 240 VA and < 15 VAC / 8 A / 240 VA. The inverter also interrupts the communication to the shutdown devices of the PV modules if they correspond to the SunSpec standard for rapid shutdown.

Via the loss of the grid connection

An automatic rapid shutdown can also occur if the grid connection is lost. The inverter identifies a failure of the grid connection and terminals are discharged to < 30 VDC / 8 A / 240 VA and < 15 VAC / 8 A / 240 VA. The inverter also interrupts the communication to the shutdown devices of the PV modules if they correspond to the SunSpec standard for rapid shutdown.

For more information see:



https://manuals.fronius.com/html/4204260312/#0_m_0000018823

Power Line Communication (PLC) transmitter

The inverter is equipped with a Power Line Communication (PLC) transmitter on the DC side. Its function is to ensure rapid shutdown in accordance with National Electric Code NEC 2023 Art. 690.12 and Canadian Electrical Code CSA C22.1:24 Art. 64-218. The PLC is implemented according to the specification "Communication Signal for Rapid Shutdown – SunSpec Interoperability Specification" (depending on national grid setup). Please visit www.sunspec.org for details.

AFCI - Arc Fault Circuit Interrupter (Arc Guard)

An AFCI (arc fault circuit interrupter) protects against arc faults in accordance with National Electric Code NEC 2023 Art. 690.11 and Canadian Electrical Code CSA C22.1:24 Art. 64-216 and, in the narrower sense, is a protection device in the event of contact errors. The AFCI evaluates faults that occur in the current and voltage flow on the DC side using an electronic circuit and shuts down the circuit if a contact error is detected. This significantly reduces potential overheating and fire risk at poor contact points.

⚠ DANGER

Danger from faulty or incorrect DC installation.

This may result in a risk of damage and, as a consequence, risk of fire in the PV system due to prohibited thermal loads that occur during an arc.

- Check the plug connections to ensure that they are correct.
- Repair faulty insulation correctly.
- Perform connection work in line with the instructions.

Operating Instructions

Only suitable battery configurations for Fronius GEN24 inverters permitted.

Fronius Primo GEN24 208-240



3.8 - 6.0 kW
3.8 - 6.0 kW Plus
<https://manuals.fronius.com/html/4204260530>



7.7 - 10.0 kW
7.7 - 10.0 kW Plus
<https://manuals.fronius.com/html/4204260312>

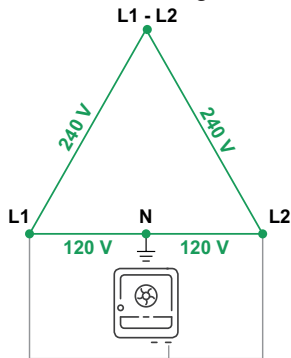
Fronius Primo GEN24 208-240 Plus with third-party battery



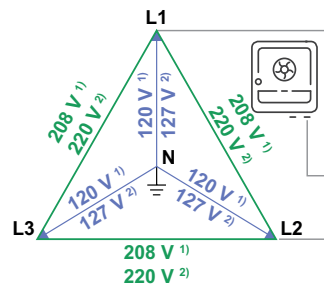
<https://www.fronius.com/en/solar-energy/installers-partners/downloads>
search for: „42,0410,3015“

Suitable grids

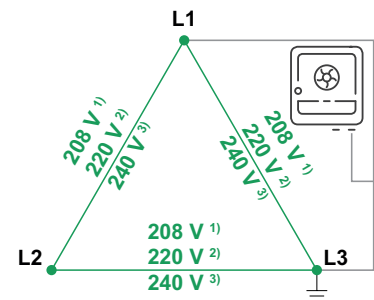
240 V: 120 V Split Phase
240 V: 120 V Stinger



1) 208 V / 120 V WYE
2) 220 V / 127 V WYE



1) 208 V Delta Corner Grounded
2) 220 V Delta Corner Grounded
3) 240 V Delta Corner Grounded



Warning signs explanation

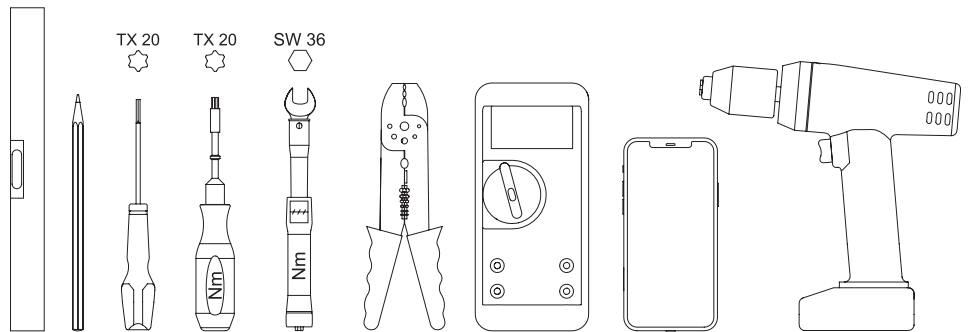


General warning sign
Panneau d'avertissement général
Señal de advertencia general

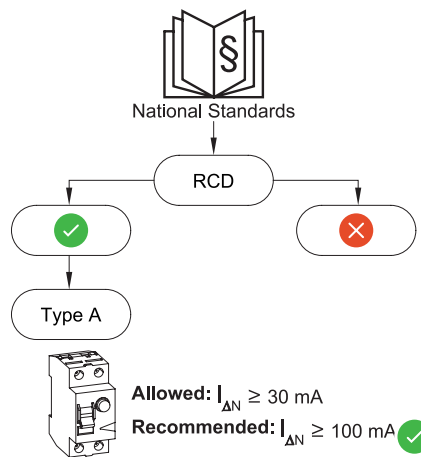
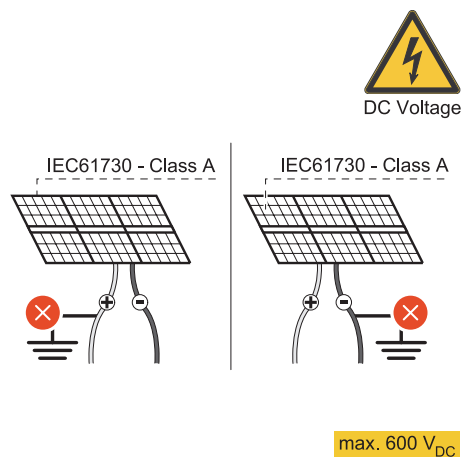


Electricity hazard
Risque électrique
Peligro de electricidad

Tools

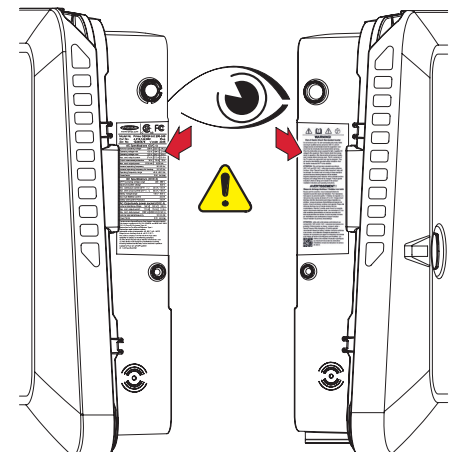


To note during installation

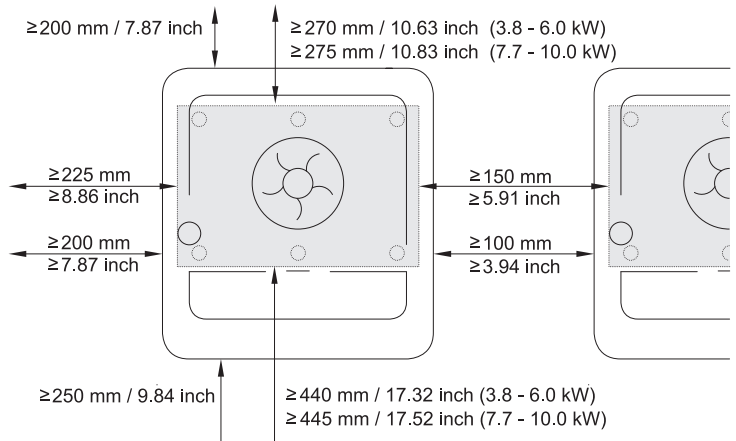
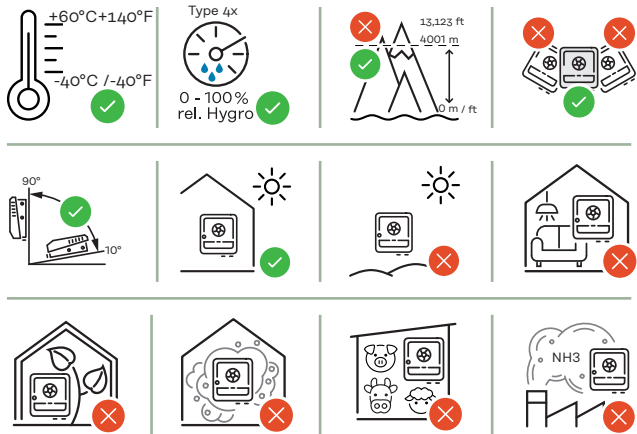


Rating plate

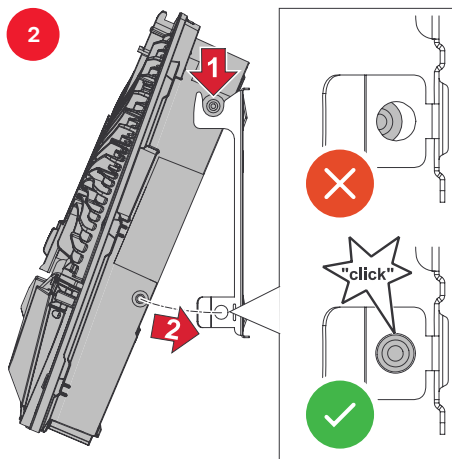
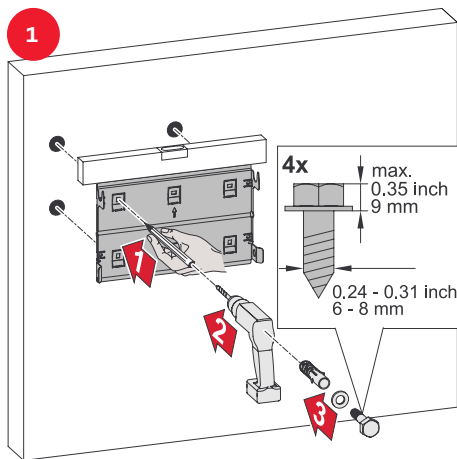
Safety information



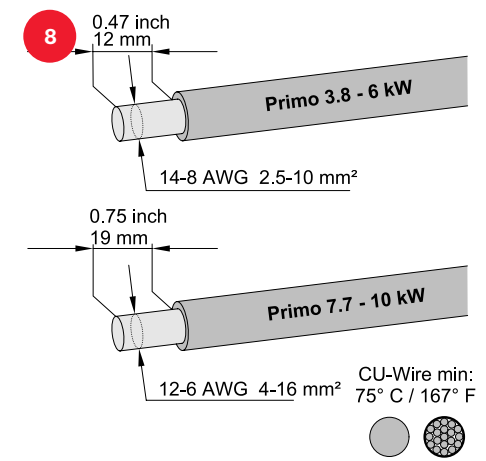
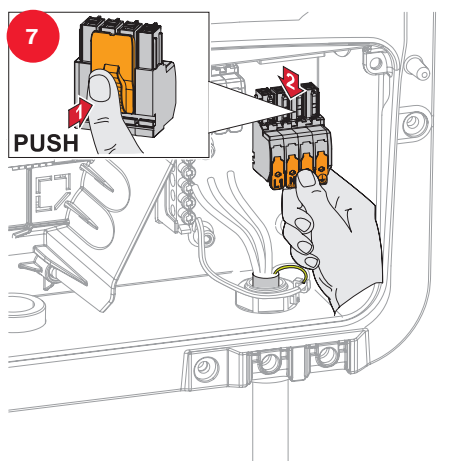
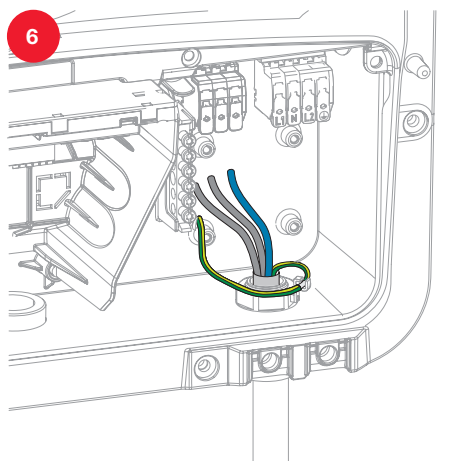
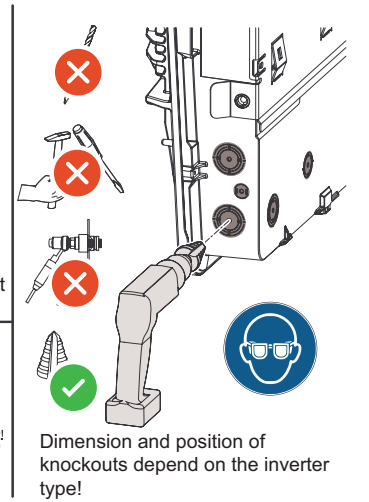
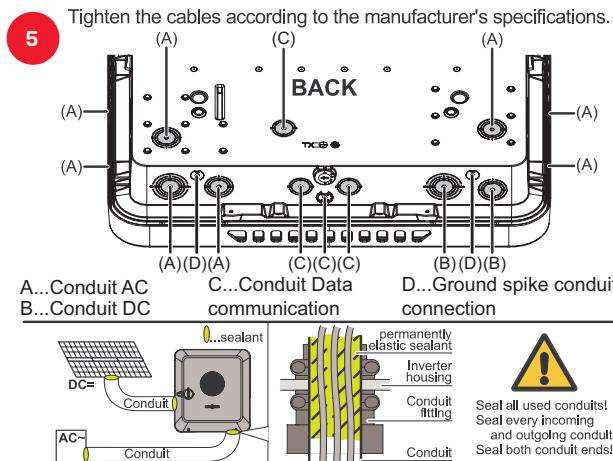
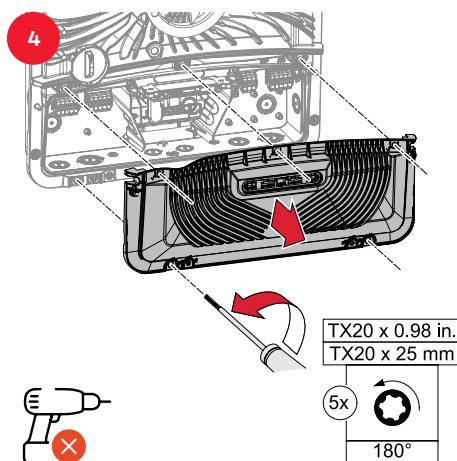
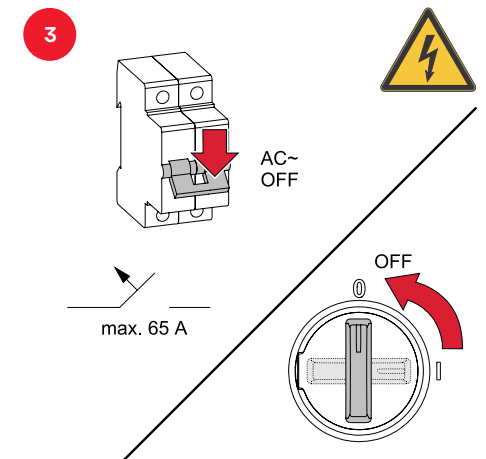
Mounting conditions

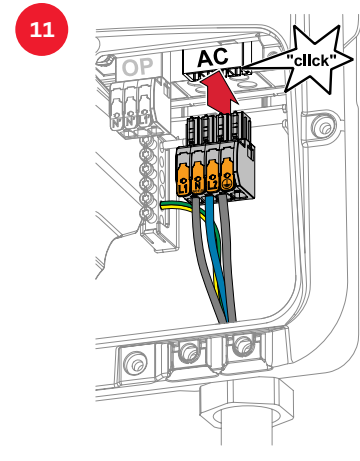
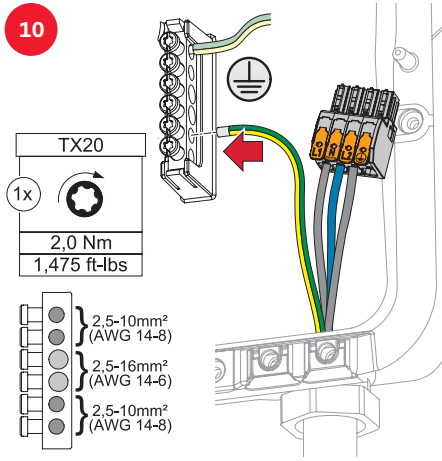
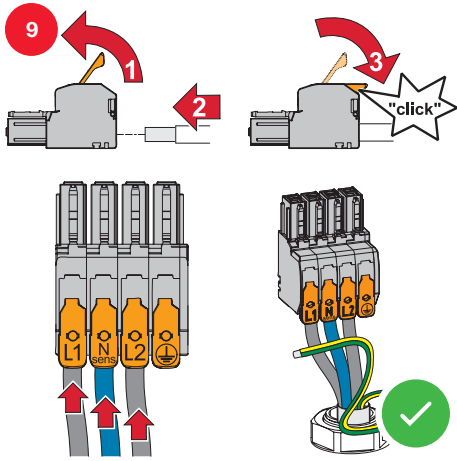


Mounting

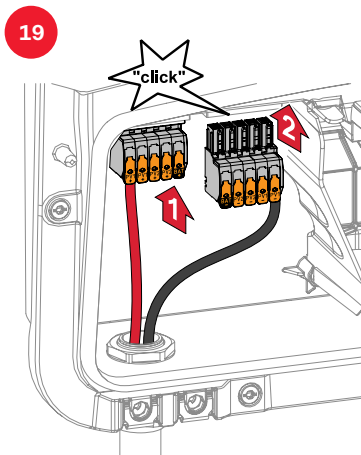
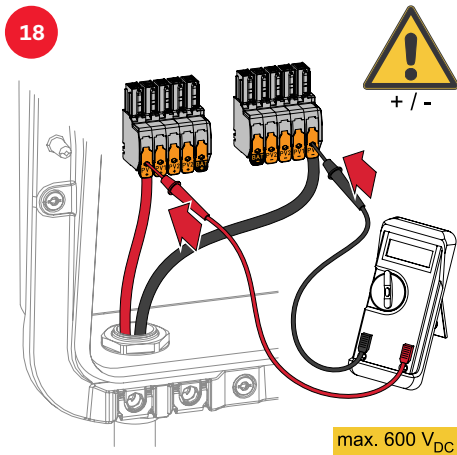
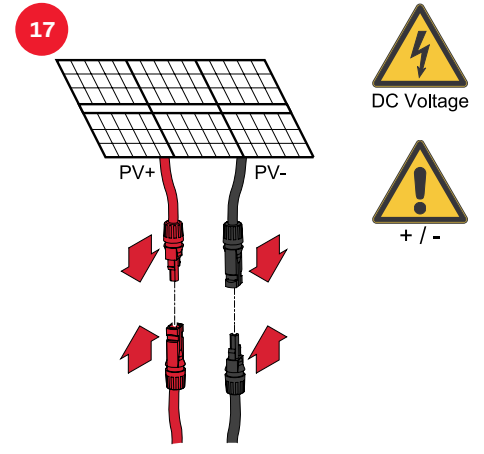
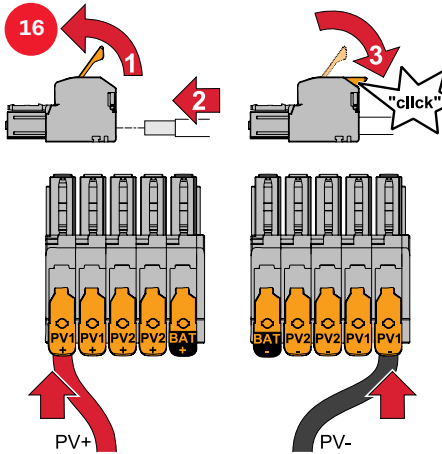
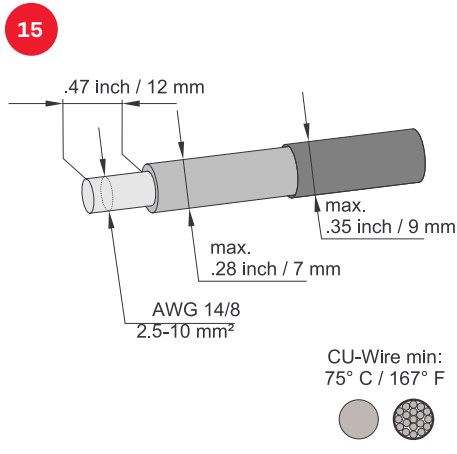
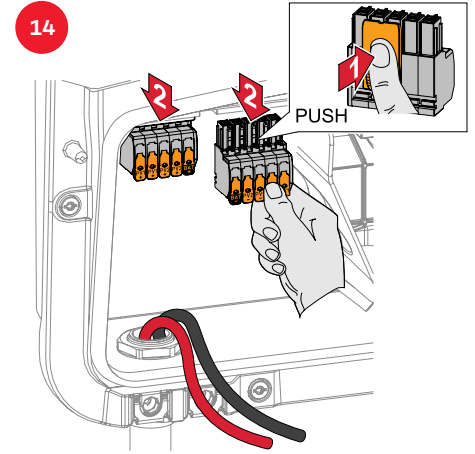
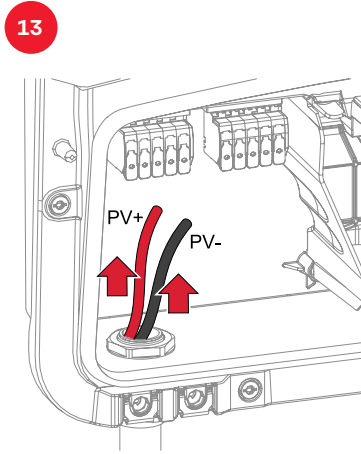
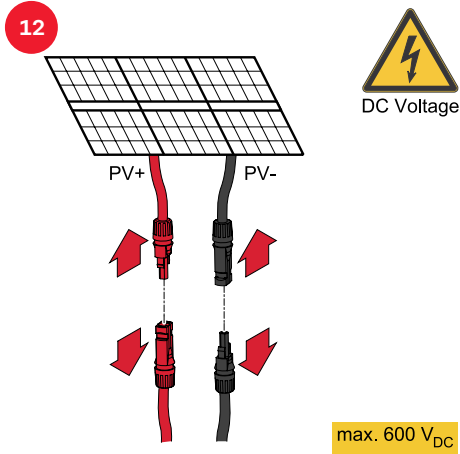


AC~

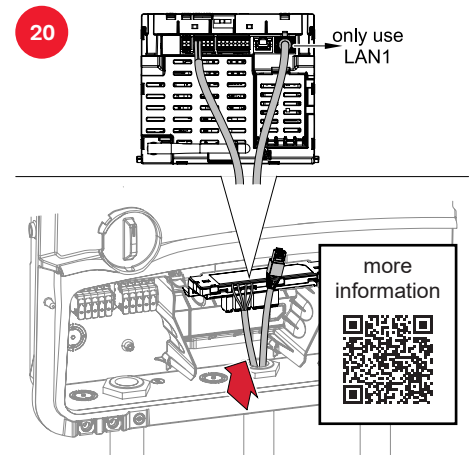




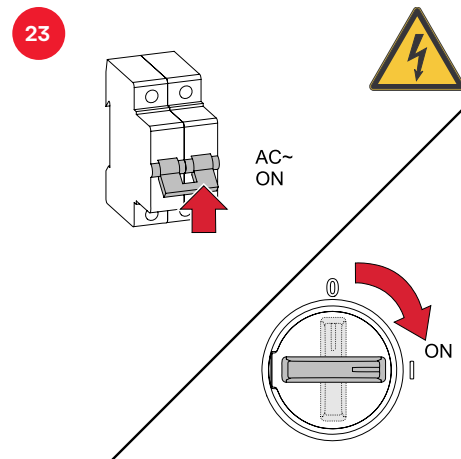
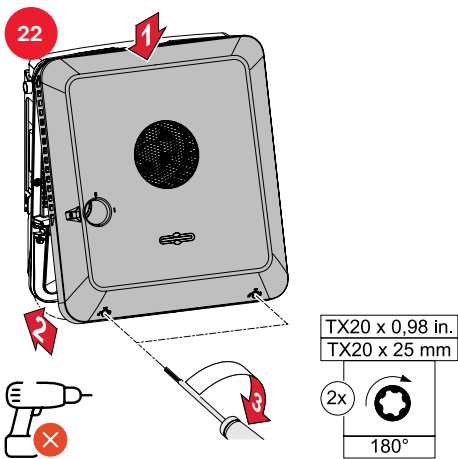
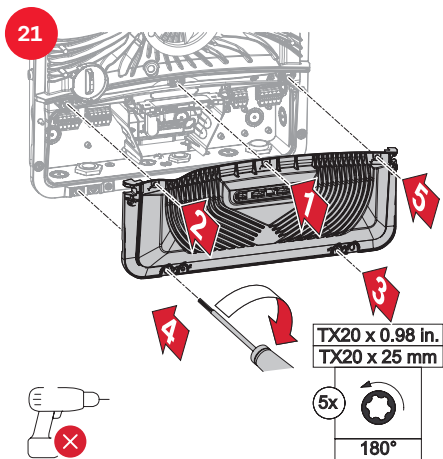
DC=



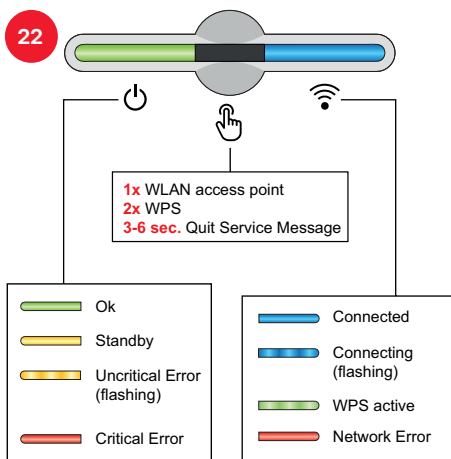
Data communication (optional)



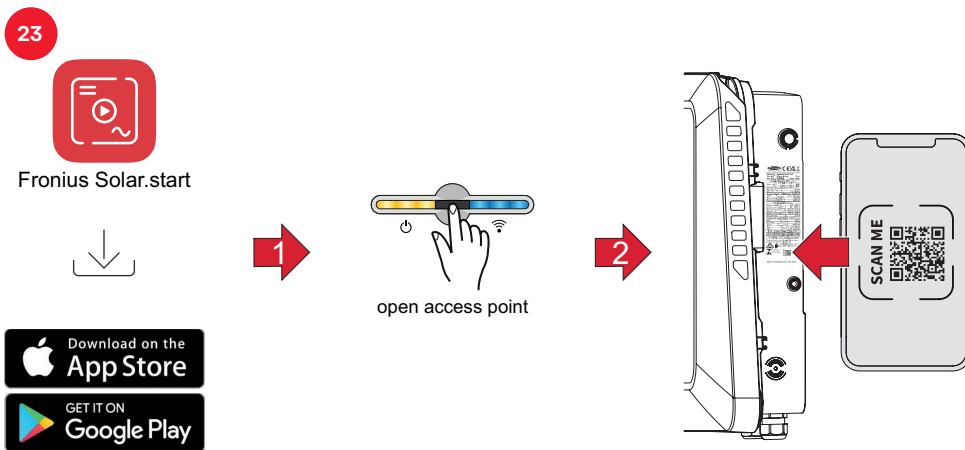
Commissioning

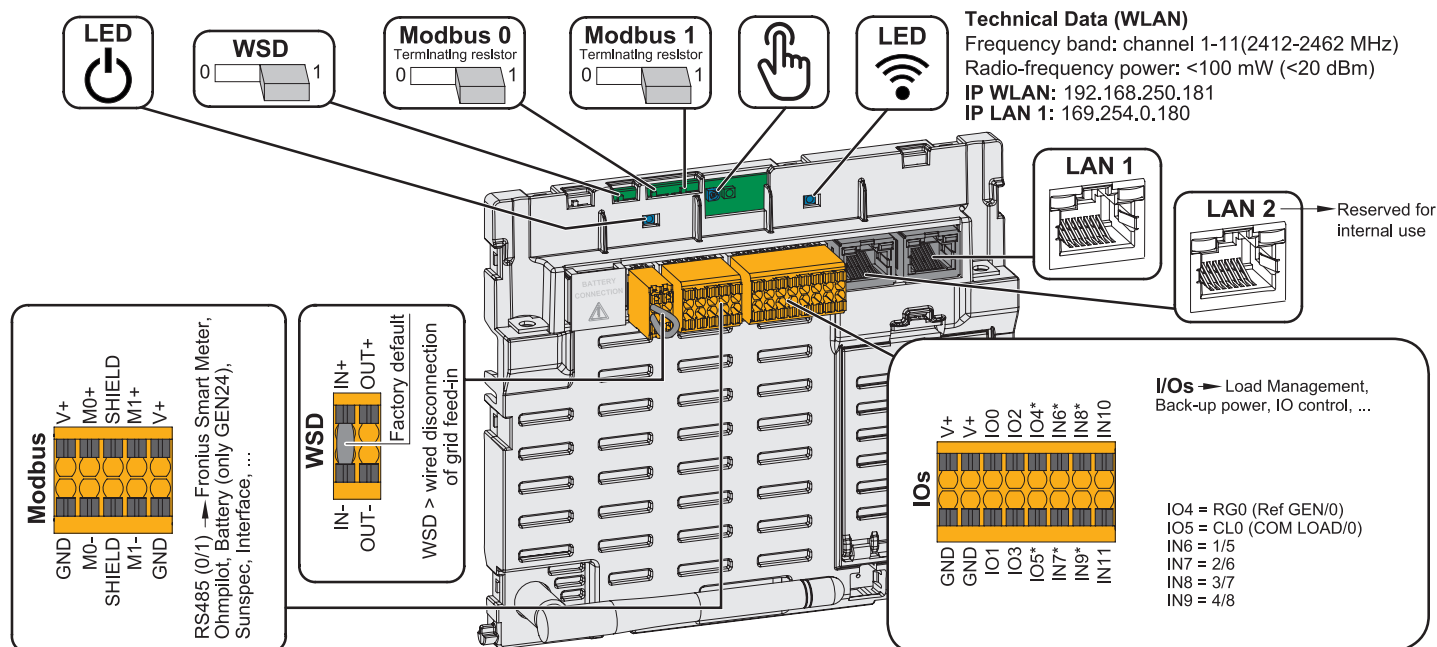


Control panel



Setup with mobile phone



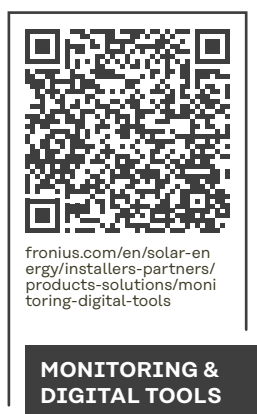


Fronius Primo GEN24 3.8 - 6.0 208 - 240 / 3.8 - 6.0 208 - 240 Plus

Dimensions (height x width x depth)	20.3 × 18.7 × 6.5 inches (516 × 474 × 165 mm)
Max. short-circuit current (I_{sc} PV = I_{sc} max)	36 A (MPPT1) / 19 A (MPPT2)
Arc Fault Circuit Interrupter	PV DC Arc-Fault Circuit-Protection Type 1, according to UL1699B:2024

Fronius Primo GEN24 7.7 - 10.0 208 - 240 / 7.7 - 10.0 208 - 240 Plus

Dimensions (height x width x depth)	23.0 × 20.8 × 7.1 inches (583 × 529 × 180 mm)
Max. short-circuit current (I_{sc} PV = I_{sc} max)	41.25 A (MPPT1) / 36 A (MPPT2)
Arc Fault Circuit Interrupter	PV DC Arc-Fault Circuit-Protection Type 1 according to UL1699B:2024



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