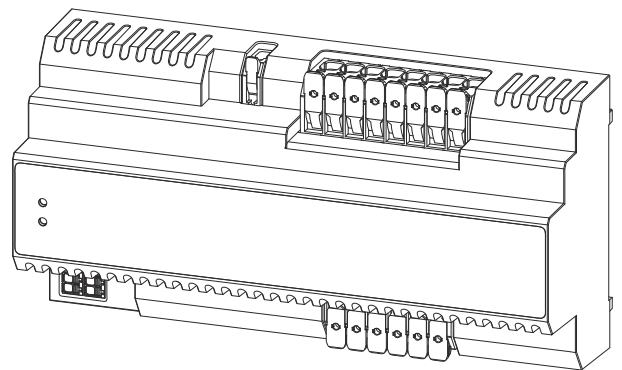


# Operating Instructions

**Fronius Backup Controller**  
3PN-35A



**EN-US** | Operating instructions



42,0426,0569,EA

002-10042025



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# **General information**



# Safety rules

## Explanation of Safety Instructions



### **DANGER!**

**Indicates an immediate danger.**

- Death or serious injury may result if appropriate precautions are not taken.



### **WARNING!**

**Indicates a possibly dangerous situation.**

- Death or serious injury may result if appropriate precautions are not taken.



### **CAUTION!**

**Indicates a situation where damage or injury could occur.**

- Minor injury or damage to property may result if appropriate precautions are not taken.

### **NOTE!**

**Indicates the possibility of flawed results and damage to the equipment.**

## General

The device has been manufactured using state-of-the-art technology and according to recognized safety standards. If used incorrectly or misused, however, it can cause

- serious or fatal injury to the operator or a third party,
- and damage to the device and other material assets belonging to the operating company.

All persons involved in start-up operation, maintenance and servicing of the device must

- be suitably qualified,
- have knowledge of and experience in dealing with electrical installations and
- have fully read and precisely followed these Operating Instructions.

The Operating Instructions must always be kept on hand wherever the device is being used. In addition to the Operating Instructions, all applicable local rules and regulations regarding accident prevention and environmental protection must also be followed.

All safety and danger notices on the device

- must be kept in a legible state
- must not be damaged/marked
- must not be removed
- must not be covered, pasted, or painted over.

The terminals can reach high temperatures.

Only operate the device when all protection devices are fully functional. If the protection devices are not fully functional, there is a risk of

- serious or fatal injury to the operator or a third party,
- and damage to the device and other material assets belonging to the operating company.

Any safety devices that are not functioning properly must be repaired by an authorized specialist before the device is switched on.

---

Never bypass or disable protection devices.

---

For the location of the safety and danger notices on the device, refer to the section headed "General" in the Operating Instructions for the device.

---

Any equipment malfunctions which might impair safety must be remedied immediately before the device is turned on.

---

**Your personal safety is at stake!**

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**Environmental conditions**

Operation or storage of the device outside the stipulated area will be deemed as not in accordance with the intended purpose. The manufacturer accepts no liability for any damage resulting from improper use.

---

**Qualified personnel**

The information contained in these operating instructions is intended only for qualified personnel. An electric shock can be fatal. Do not carry out any actions other than those described in the documentation. This also applies to qualified personnel.

---

All cables must be secured, undamaged, insulated, and adequately dimensioned. Loose connections, damaged or under-dimensioned cables must be repaired immediately by an authorized specialist company.

---

Maintenance and repair work must only be carried out by an authorized specialist company.

---

It is impossible to guarantee that third-party parts are designed and manufactured to meet the demands made on them, or that they satisfy safety requirements. Only use original spare parts.

---

Do not carry out any alterations, installations, or modifications to the device without first obtaining the manufacturer's permission.

---

Replace any damaged components or have them replaced immediately.

---

**EMC measures**

In certain cases, even though a device complies with the standard limit values for emissions, it may affect the application area for which it was designed (e.g., when there is equipment that is susceptible to interference at the same location or if the site where the device is installed is close to either radio or television receivers). If this is the case, the operator is obliged to take action to rectify the situation.

---

**Data backup**

With regard to data security, the user is responsible for:

- backing up any changes made to the factory settings
- saving and storing personal settings

---

**Copyright**

Copyright of these operating instructions remains with the manufacturer.

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Text and illustrations were accurate at the time of printing, subject to change.  
We are grateful for suggestions for improvement and information on any discrepancies in the operating instructions.

# General

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## Intended use

The Fronius Backup Controller is a fixed piece of equipment designed for use in public grids with TT-/TN-S-/TN-C-S systems. Its main function is to automatically and securely disconnect all connected loads and generators from the public grid in the event of a grid failure or grid malfunction in accordance with the specifications of the grid operator. As soon as grid stability has been restored, the loads and generators are automatically reconnected to the public grid.

1. **Application:** The Fronius Backup Controller is required for systems with storage batteries to enable automatic backup power switching.
2. **Installation:** The Fronius Backup Controller is installed either on an indoor DIN rail or in special enclosures with corresponding IP protection, depending on the environmental conditions.
3. **Safety precautions:** In conjunction with a Fronius Smart Meter, corresponding back-up fuses must be selected to suit the cable cross-sections of the copper conductors and the maximum current of the Fronius Backup Controller (see [Fronius Backup Controller3PN-35A](#) on page 33).
4. **Intended use:** The Fronius Backup Controller must only be operated in accordance with the specifications in the enclosed documentation and in accordance with local laws, regulations, provisions, standards, and within the limits of technical possibilities. Any use of the product other than as described under intended use shall be deemed to be not in accordance with intended use.
5. **Documentation:** The available documentation forms part of the product and must be read, observed, and kept in good condition. It must also be accessible at all times at the place of installation. The available documents do not replace regional, state, provincial, or national laws, or regulations or standards that apply to the installation, electrical safety, and use of the product. Fronius International GmbH assumes no responsibility for compliance with or non-compliance with these laws or regulations in connection with the installation of the product.
6. **Interventions and modifications:** Interventions in the Fronius Backup Controller, e.g., modifications and alterations, are not permitted. Unauthorized interventions will void the warranty and warranty claims and, as a rule, void the user's authority to operate the equipment. The manufacturer shall not be liable for any damage resulting from such use.

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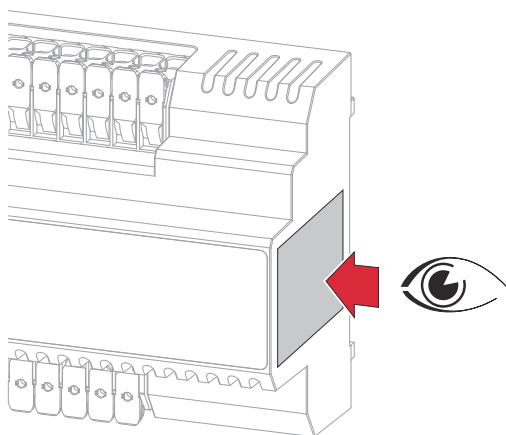
## Foreseeable misuse

The backup power switching is not suitable to supply loads that require an uninterruptible supply (e.g., IT networks, life-sustaining medical devices).

---

## Information on the device

Technical data and markings are located on the Fronius Backup Controller. This information must be kept in a legible condition and must not be removed, covered, pasted or painted over.



## Labelling



CE label – confirms compliance with applicable EU directives and regulations.

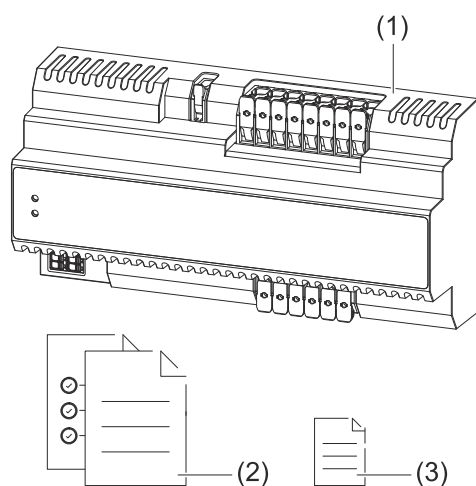


WEEE marking – waste electrical and electronic equipment must be collected separately and recycled in an environmentally sound manner in accordance with the European Directive and national law.



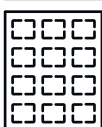
RCM marking – tested according to the requirements of Australia and New Zealand.

## Scope of supply



- (1) Fronius Backup Controller
- (2) Quick Start Guide
- (3) Backup power warning notice

## Explanation of symbols



### PV module

Generates direct current



### Fronius GEN24 inverter

Converts direct current into alternating current and charges the battery (battery charging is only possible with Fronius GEN24 Plus inverters). The integrated system monitoring enables the inverter to be integrated into a network by means of WiFi.



### **Fronius Backup Controller**

Automatically and securely disconnects all connected loads and generators from the public grid in the event of a grid failure or grid malfunction in accordance with the specifications of the grid operator. As soon as grid stability has been restored, the loads and generators are automatically reconnected to the public grid.



### **Inverter in the system**

e.g., Fronius Primo, Fronius Symo



### **Primary meter**

Records the system's load curve and provides measurement data for energy profiling in Fronius Solar.web. The primary meter also controls the dynamic power of feeding in.



### **Utility meter**

Measures the measurement data relevant for billing amounts of energy (in particular kilowatt hours of energy sourced from the grid and energy fed into the grid). Based on the relevant billing data, the electricity retailer will invoice for the energy sourced from the grid and the purchaser of the surplus energy will reimburse the energy fed into the grid.



### **Grid**

Supplies the loads in the system if insufficient power is being generated by the PV modules or supplied by the battery.



### **Battery**

Is coupled to the inverter on the direct current side, and stores electrical energy.



### **Loads in the system**

e.g., washing machine, lamps, TV

## **Positioning**

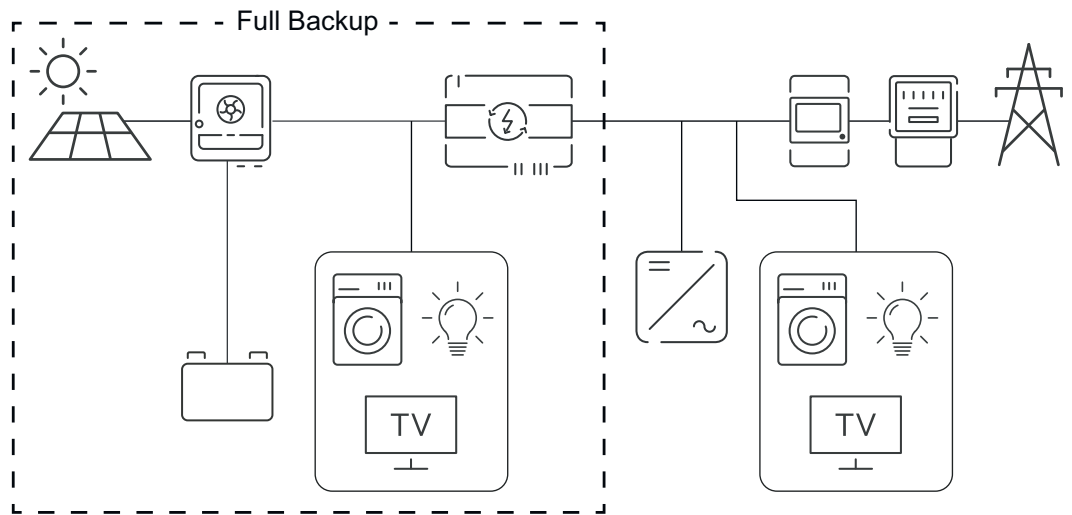
The Fronius Backup Controller must be installed in the backup power circuit of the photovoltaic system.

### **NOTE!**

#### **Other inverters/generators in the house**

Only 1 hybrid inverter may be installed in the backup power circuit of the PV system. Failure to follow this specification may result in damage to the PV system.

- ▶ Install other inverters/generators outside the backup power circuit.
- ▶ Alternatively, install a dedicated backup power circuit for these devices.

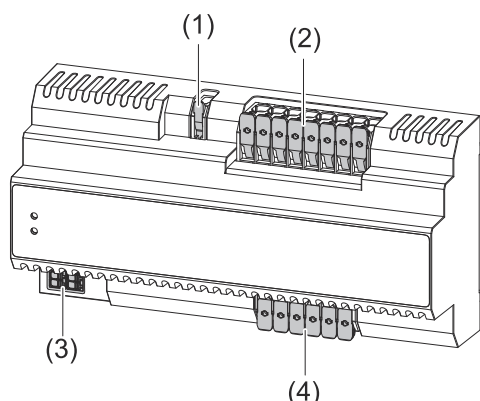


**Recommended  
Fronius Smart  
Meter**

Device name	Item number
Fronius Smart Meter IP	42,0411,0347
Fronius Smart Meter 63A-3	43,0001,1473
Fronius Smart Meter TS 65A-3	43,0001,0044

# Operating controls and connections

## Connection area



- (1) 1-pin push-in terminal for the neutral conductor connection to the Fronius Smart Meter (max. 1 A).
- (2) 8-pin push-in terminal for loads/generators in the backup power circuit.
- (3) Push-in terminal for digital inputs/outputs (I/Os).
- (4) 6-pin push-in terminal for the supply from the public grid.

## Description of digital inputs/outputs (I/Os)

I/O pin	Parameter	Description
IO 0	Enable backup power locking	Before the inverter switches to backup power mode, the pin IO 0 must be active (value = 1).
IN 6	Grid relay open feedback	If the mains voltage is too low or the pin IO 0 is active (value = 1), relay K1 is open and relay K2 is closed. The auxiliary contacts of the mains isolation relays are closed and the pin IN 6 is active (value = 1).
IN 7	Locking feedback	When IO 0 and IN 6 are active, the auxiliary contact closes and pin IN 7 is active (value = 1). The inverter receives a feedback signal and switches to backup power mode.

## LED status indicator

The LED status indicator shows the operating status.

Symbol	LED status	Description
	 Lights up green	The "Grid" LED indicates that all connected loads and generators in the backup power circuit are being supplied by or are connected to the public grid.
	 Lights up blue	The "Full Backup" LED indicates that all connected loads and generators in the backup power circuit are safely disconnected from the public grid and that the Full Backup power supply is active.

# **Installation and Startup**



# Prerequisites for connecting

## Requirements

The following components must be installed in the switch cabinet to permit the safe operation of the Fronius Backup Controller:

- Upstream overcurrent protection as specified in chapter [Fronius Backup Controller3PN-35A](#) on page 33.
- A surge protection device (SPD) as specified in chapter [Fronius Backup Controller3PN-35A](#) on page 33.

## Different cable types

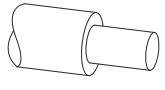
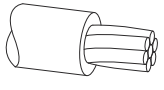
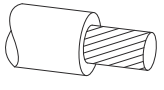
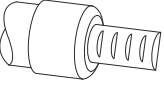
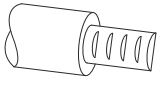
Single-core	Multi-stranded	Fine-stranded	Fine-stranded with ferrule and collar	Fine-stranded with ferrule without collar
				

## Permitted cables for the electrical connection

Round copper conductors can be connected to the terminals as described below.

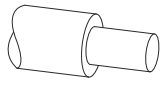
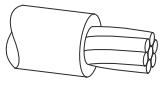
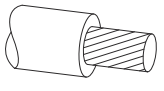
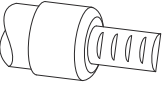
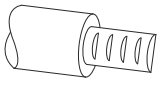
### Push-in terminals for the supply from the public grid.\*

Select a sufficiently large cable cross-section based on the actual connected output.

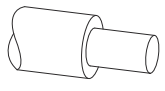
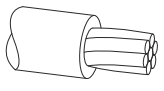
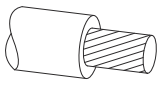
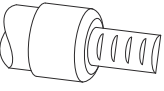
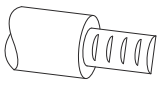
				
2.5 - 10 mm <sup>2</sup>	2.5 - 10 mm <sup>2</sup>	2.5 - 10 mm <sup>2</sup>	2.5 - 6 mm <sup>2</sup>	2.5 - 6 mm <sup>2</sup>

### Push-in terminals for the loads/generators in the backup power circuit.\*

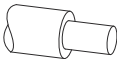
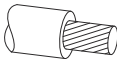
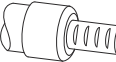
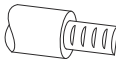
Select a sufficiently large cable cross-section based on the actual connected output.

				
2.5 - 10 mm <sup>2</sup>	2.5 - 10 mm <sup>2</sup>	2.5 - 10 mm <sup>2</sup>	2.5 - 6 mm <sup>2</sup>	2.5 - 6 mm <sup>2</sup>

### Push-in terminal for the neutral conductor connection to the Fronius Smart Meter (max. 1 A)

				
1 - 4 mm <sup>2</sup>	1 - 4 mm <sup>2</sup>	1 - 4 mm <sup>2</sup>	1 - 2.5 mm <sup>2</sup>	1 - 2.5 mm <sup>2</sup>

**Permitted cables for digital inputs/outputs** Round copper conductors can be connected to the push-in terminals for digital inputs/outputs (I/Os) as described below.

IO connections with push-in terminal						
Max. distance	Stripping length					Cable recommendation
30 m * 32 yd *	10 mm 0.39 inch	0.14 - 1.5 mm <sup>2</sup> AWG 26 - 16	0.14 - 1.5 mm <sup>2</sup> AWG 26 - 16	0.14 - 1 mm <sup>2</sup> AWG 26 - 18	0.14 - 1.5 mm <sup>2</sup> AWG 26 - 16	Single conductors possible

\* The maximum cable length between the inverter and the Backup Controller must not exceed 30 m (32 yd). Fronius recommends using at least CAT 5 STP (shielded twisted pair) cables.

# Installation

## Safety



### WARNING!

#### **Danger from short circuits due to foreign bodies in the housing.**

An electric shock can lead to serious injury or death.

- ▶ Cover vents during installation.



### WARNING!

#### **Danger due to incorrect operation and incorrectly performed work.**

This can result in serious injury and damage to property.

- ▶ Only trained service technicians who have received training from the respective inverter or battery manufacturer are authorized to perform commissioning, maintenance, and service activities for inverters and batteries, and only within the scope of the technical regulations.
- ▶ Read the installation instructions and operating instructions from the respective manufacturer before installing and commissioning the equipment.



### WARNING!

#### **Danger from mains voltage and DC voltage from PV modules that are exposed to light, as well as batteries.**

This can result in serious injury and damage to property.

- ▶ All connection, maintenance, and service work should only be carried out when the AC and DC sides have been disconnected from the inverter and battery, and are de-energized.
- ▶ Only an authorized electrical engineer is permitted to connect this equipment to the public grid.



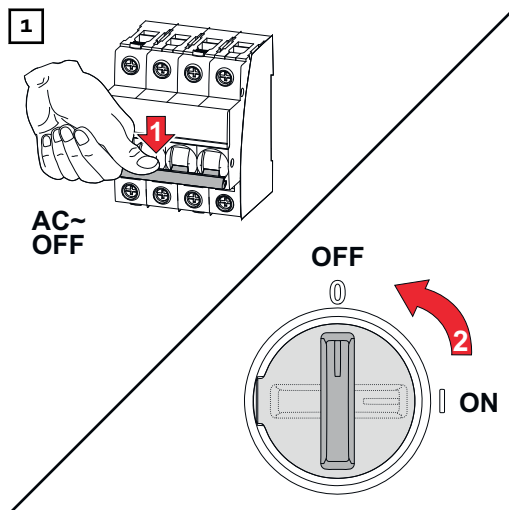
### WARNING!

#### **Danger from damaged and/or contaminated terminals.**

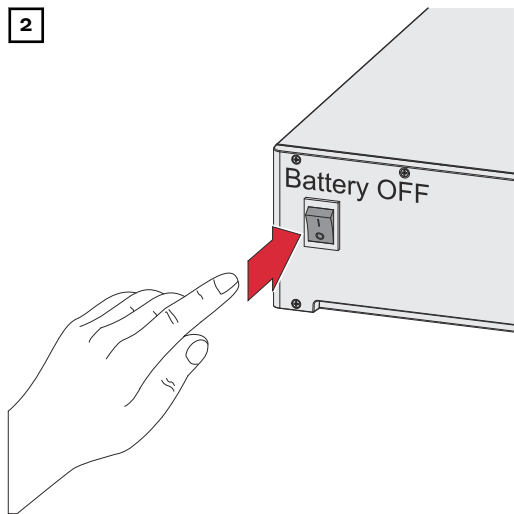
This can result in serious injury and damage to property.

- ▶ Prior to connection work, check the terminals for damage and contamination.
- ▶ Remove any contamination while the equipment is de-energized.
- ▶ Have defective terminals repaired by an authorized specialist.

**De-energizing all sides of the PV system**

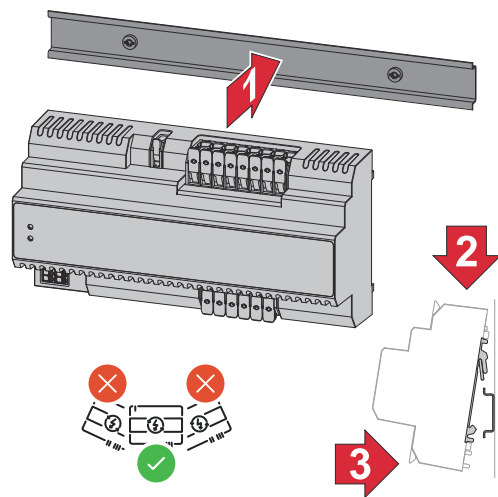


Switch off the house connection fuse and the automatic circuit breaker. Set the DC disconnect to the "off" switch position.



Switch off the battery connected to the inverter.  
Wait for the capacitors of the inverter to discharge (2 minutes).

**Installation**



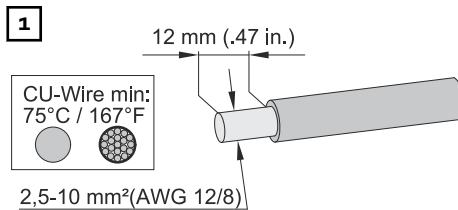
The Fronius Backup Controller can be mounted on a 35 mm DIN rail. The housing comprises 11 modules according to DIN 43880 and conforms to unit size 2.

**⚠ WARNING!**

**Danger from loose and/or incorrectly clamped single conductors in the terminal.**

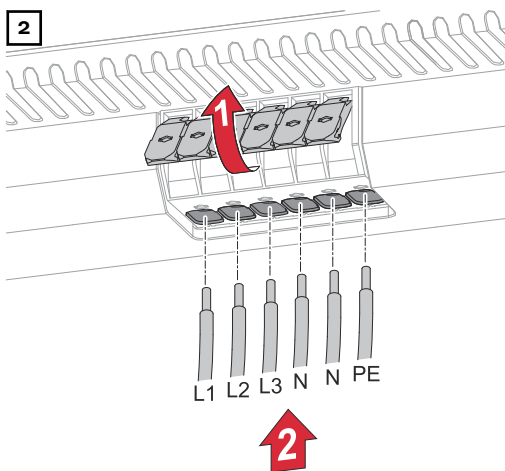
This can result in serious injury and damage to property.

- ▶ Only connect one single conductor in the slot provided for each terminal.
- ▶ Check that the single conductors are secure in the terminal.
- ▶ Make sure that the single conductor has been fully inserted into the terminal and that no single wires are protruding out of the terminal.

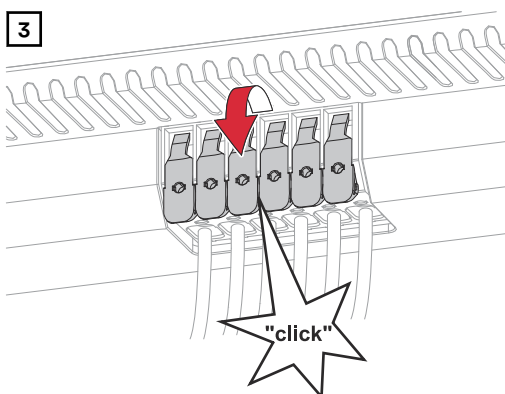


Strip the insulation of the single conductors by 12 mm.

Select the cable cross-section in accordance with the instructions in [Permitted cables for the electrical connection](#) from page 17.



Lift the operating levers of the terminals to open. Insert the stripped single conductors into the slot provided in the terminal, in each case as far as it will go.



Close the terminal operating levers until they engage.

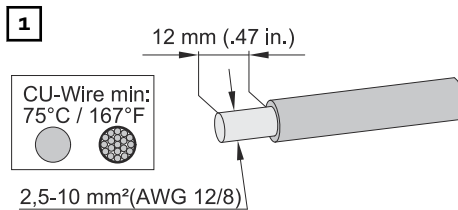
## Connecting loads in the backup power circuit

### **⚠ WARNING!**

#### **Danger from loose and/or incorrectly clamped single conductors in the terminal.**

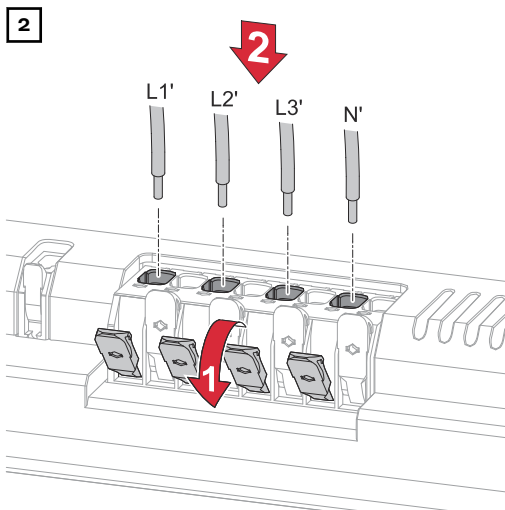
This can result in serious injury and damage to property.

- ▶ Only connect one single conductor in the slot provided for each terminal.
- ▶ Check that the single conductors are secure in the terminal.
- ▶ Make sure that the single conductor has been fully inserted into the terminal and that no single wires are protruding out of the terminal.



Strip the insulation of the single conductors by 12 mm.

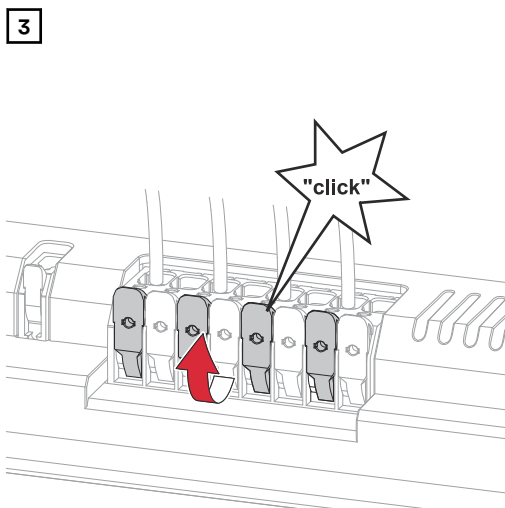
Select the cable cross-section in accordance with the instructions in [Permitted cables for the electrical connection](#) from page 17.



Lift the operating levers of the terminals to open. Insert the stripped single conductors into the slot provided in the terminal, in each case as far as it will go.

#### **IMPORTANT!**

The neutral conductor must be connected to the public grid.



Close the terminal operating levers until they engage.

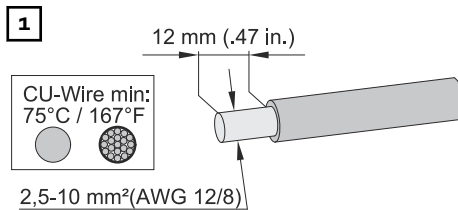
## Connecting the inverter in the backup power circuit

### **⚠ WARNING!**

#### **Danger from loose and/or incorrectly clamped single conductors in the terminal.**

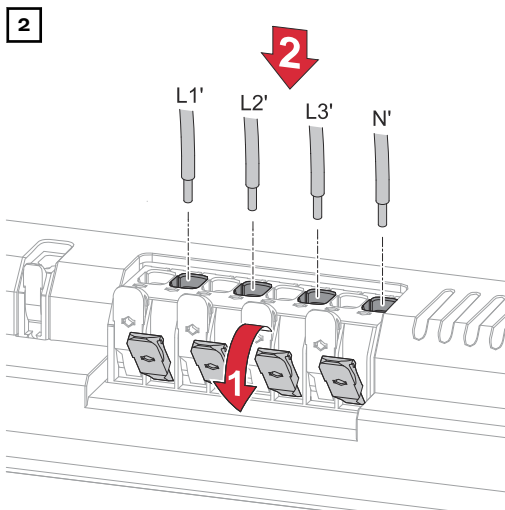
This can result in serious injury and damage to property.

- ▶ Only connect one single conductor in the slot provided for each terminal.
- ▶ Check that the single conductors are secure in the terminal.
- ▶ Make sure that the single conductor has been fully inserted into the terminal and that no single wires are protruding out of the terminal.



Strip the insulation of the single conductors by 12 mm.

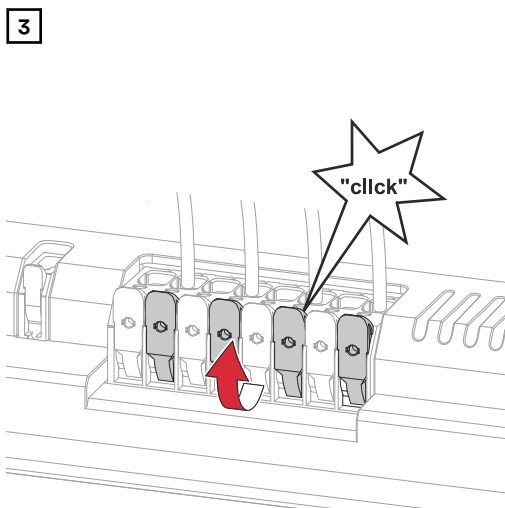
Select the cable cross-section in accordance with the instructions in [Permitted cables for the electrical connection](#) from page 17.



Lift the operating levers of the terminals to open. Insert the stripped single conductors into the slot provided in the terminal, in each case as far as it will go.

#### **IMPORTANT!**

The neutral conductor must be connected to the public grid.



Close the terminal operating levers until they engage.

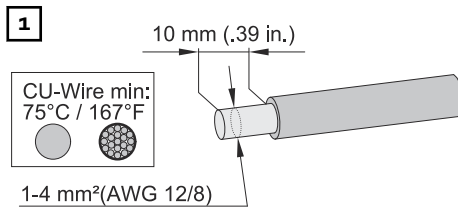
**Connecting the neutral conductor for the Fronius Smart Meter (optional)**

**⚠ WARNING!**

**Danger from loose and/or incorrectly clamped single conductors in the terminal.**

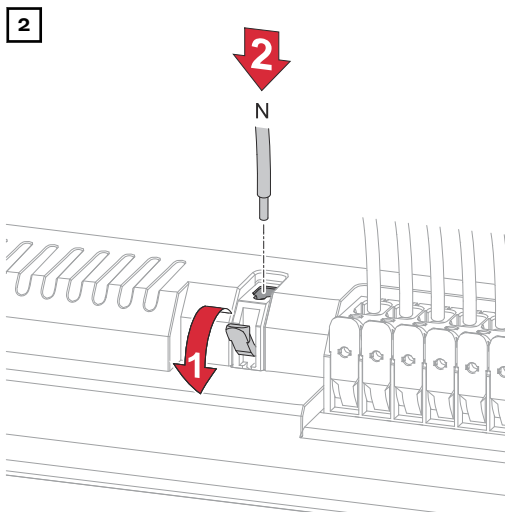
This can result in serious injury and damage to property.

- ▶ Only connect one single conductor in the slot provided for each terminal.
- ▶ Check that the single conductors are secure in the terminal.
- ▶ Make sure that the single conductor has been fully inserted into the terminal and that no single wires are protruding out of the terminal.

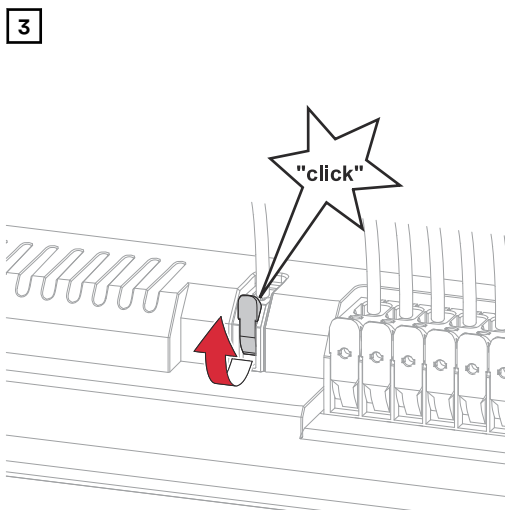


Strip the insulation of the single conductors by 10 mm.

Select the cable cross-section in accordance with the instructions in [Permitted cables for the electrical connection](#) from page 17.



Lift the operating levers of the terminals to open. Insert the stripped single conductor into the slot provided in the terminal as far as it will go.



Close the operating lever of the terminal until it engages.

**Connecting the data communication cable (Fronius GEN24)**

**⚠ WARNING!**

**Danger due to a short circuit between the single conductor of the shielding and live components.**

This can result in serious injury and damage to property.

- Insulate unused single conductors of the shielding with a shrink sleeve.

**NOTE!**

**Danger from external power supply**

If the data communication area of the inverter is connected to a powerful external power supply, the Backup Controller may be damaged.

- The external supply must not exceed a voltage of 12 V (+/- 10%).

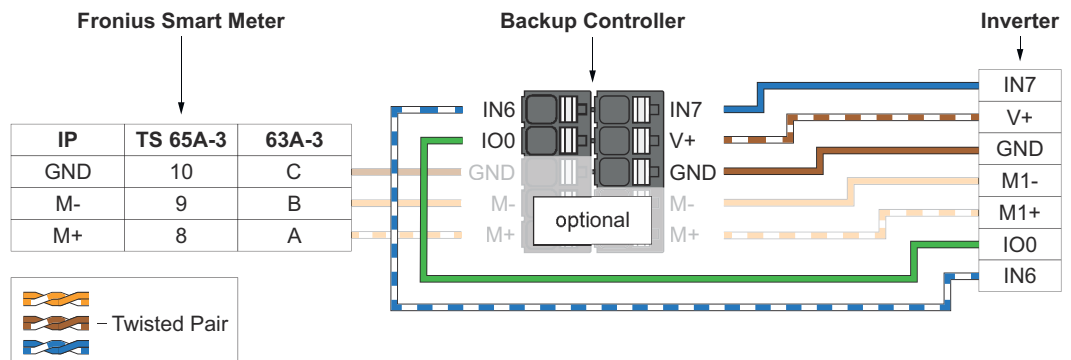
**NOTE!**

**Power requirements of the Backup Controller and battery**

If additional loads are connected to the data communication area of the inverter, e.g., to the digital I/Os, the power requirements of the Backup Controller and battery may no longer be met. The function of the automatic backup power switching may be impaired.

**Observe the following points when connecting the data communication cable.**

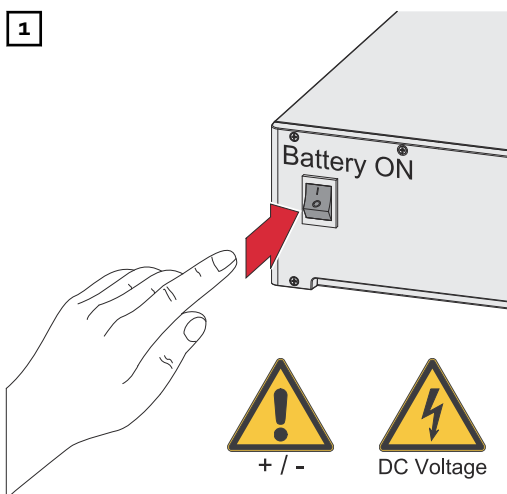
- Use network cables of type CAT5 STP or higher.
- Use a twisted cable pair for corresponding data cables.
- Use double insulated or sheathed data cables when near bare conductors.
- Use shielded twisted pair cables to avoid interference.



# Commissioning

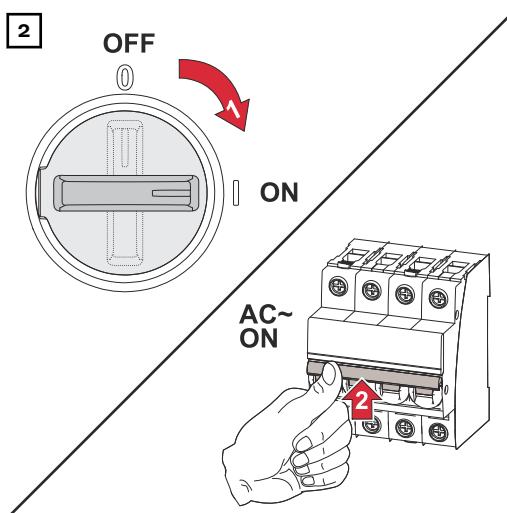
## Putting the PV system into operation

1



Switch on the battery connected to the inverter.

2



Set the DC disconnect to the "on" switch position. Turn on the automatic circuit breaker.

## General

### IMPORTANT!

Settings in the **Device configuration > Functions and I/Os** menu item may only be implemented by staff trained to do so! The service password must be entered for the **Device configuration** menu item.

## Backup power - Configuring Full Backup

1

- Call up the user interface of the inverter.
  - Open web browser.
  - In the address bar of the browser, enter the IP address (**WiFi:** 192.168.250.181, **LAN:** 169.254.0.180) or enter and confirm the host and domain name of the inverter.

✓ *The user interface of the inverter is displayed.*

2

- Log in to the login area with user **Technician** and the technician password.

3

- Activate the **Backup Power** function in the **Device Configuration > Functions and I/Os** menu area.

4

- Select **Full Backup** mode in the **Backup power mode** drop-down list.

5

- Click the **Save** button to save the settings.

✓ *The Full Backup power mode has been configured.*

---

**Testing backup power mode**

Testing backup power mode is recommended:

- During the initial installation and configuration
- After working on the switch cabinet
- During ongoing operation (recommendation: at least once a year)

For test mode, a battery charge of min. 30% is recommended.

A description on how to run test mode can be found in the [backup power check-list](https://www.fronius.com/en/search-page, item number: 42,0426,0365) (https://www.fronius.com/en/search-page, item number: 42,0426,0365).



# Appendix



# Care, maintenance, and disposal

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## Cleaning

Clean the Backup Controller as required with a damp cloth.  
Do not use cleaning agents, abrasives, solvents or similar to clean the Backup Controller.

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## Maintenance

Maintenance and service work may only be carried out by Fronius-trained service technicians.

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## Disposal

Waste electrical and electronic equipment must be collected separately and recycled in an environmentally sound manner in accordance with the European Directive and national law. Used equipment must be returned to the distributor or through a local authorized collection and disposal system. Proper disposal of the used device promotes sustainable recycling of resources and prevents negative effects on health and the environment.

### Packaging materials

- Collect separately
- Observe local regulations
- Crush cardboard boxes

# Warranty provisions

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## **Fronius manufacturer's warranty**

Detailed, country-specific warranty conditions are available at [www.fronius.com/solar/warranty](http://www.fronius.com/solar/warranty).

To obtain the full warranty period for your newly installed Fronius product, please register at [www.solarweb.com](http://www.solarweb.com).

# Technical data

## Fronius Backup Controller 3PN-35A

General data	
Grid configuration	TT / TN-S / TN-C-S
Housing	11 modules according to DIN 43880
Mounting	35 mm DIN rail
Weight	856 g
Protection class	IP20
Fault Ride Through (FRT)	According to EN 50549-10
Short-circuit breaking capacity	Class PC
Self-consumption	5 W

Environmental conditions	
Permitted ambient temperature	-20 to +60 °C
Permissible humidity	50% relative humidity at 40 °C
Max. altitude	2000 m
Vibrations	Not permitted

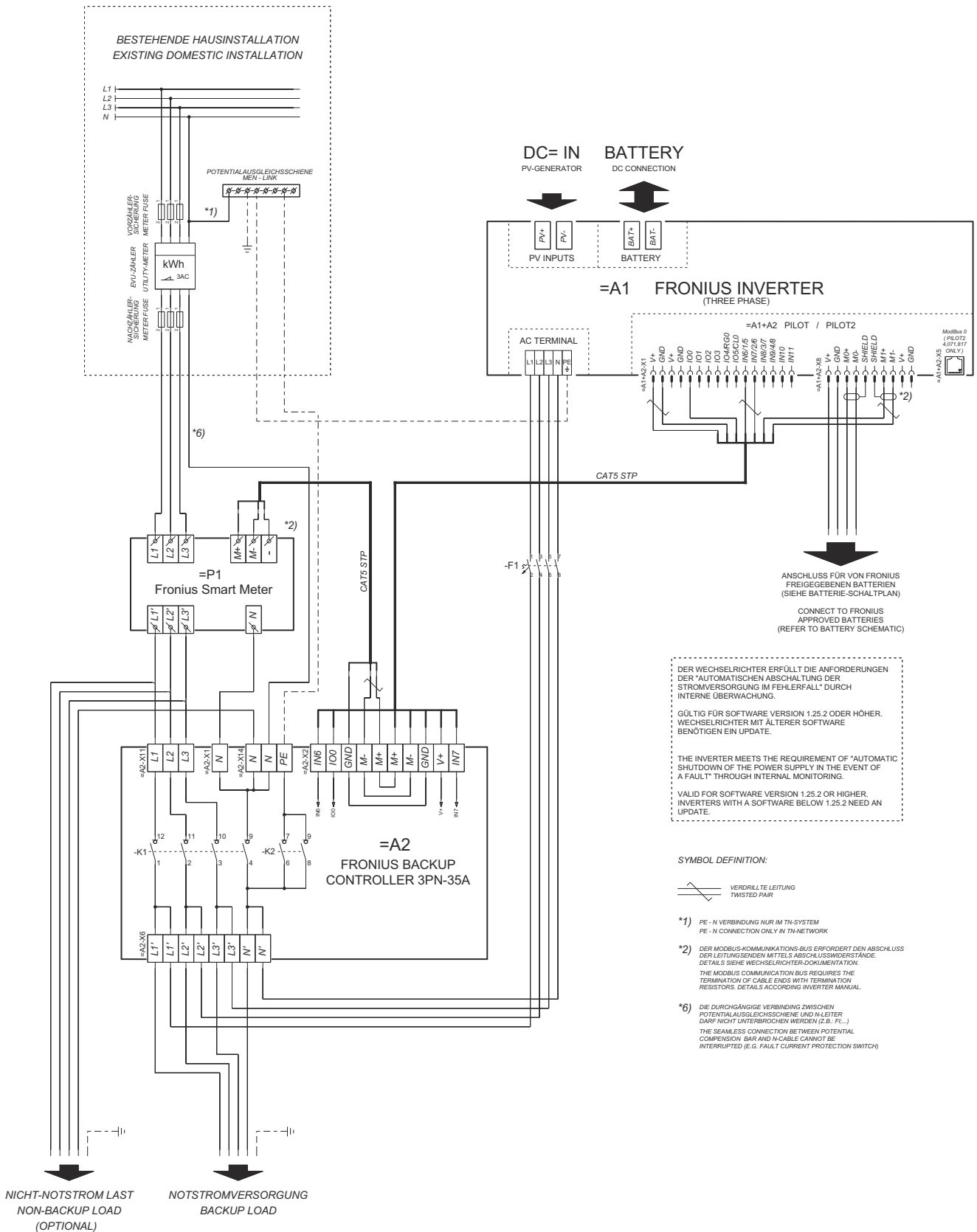
Rated values	
Nominal voltage	230/400 V 3-pole or 3-pole + N
Nominal current	35 A
Max. permissible fuses	35 A gG fuse 35 A automatic circuit breaker
Duty cycle	100% at AC-32
Rated power	24 kVA
Grid frequency	50 Hz
Power loss (at nominal current)	XX W
Overvoltage category	III

Electromagnetic compatibility	
Interference immunity	According to EN 61000-6-2 2019-12-01
Emissions	According to EN 61000-6-3 2020-07



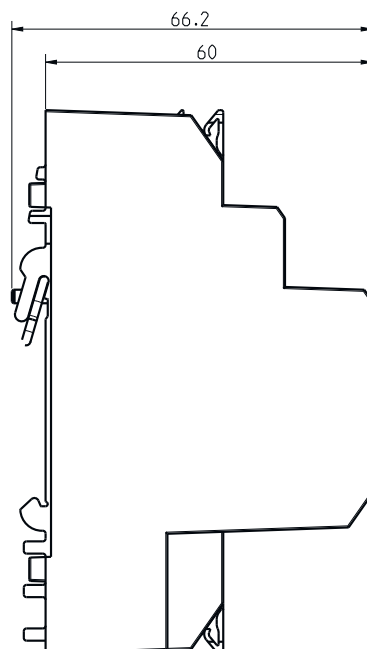
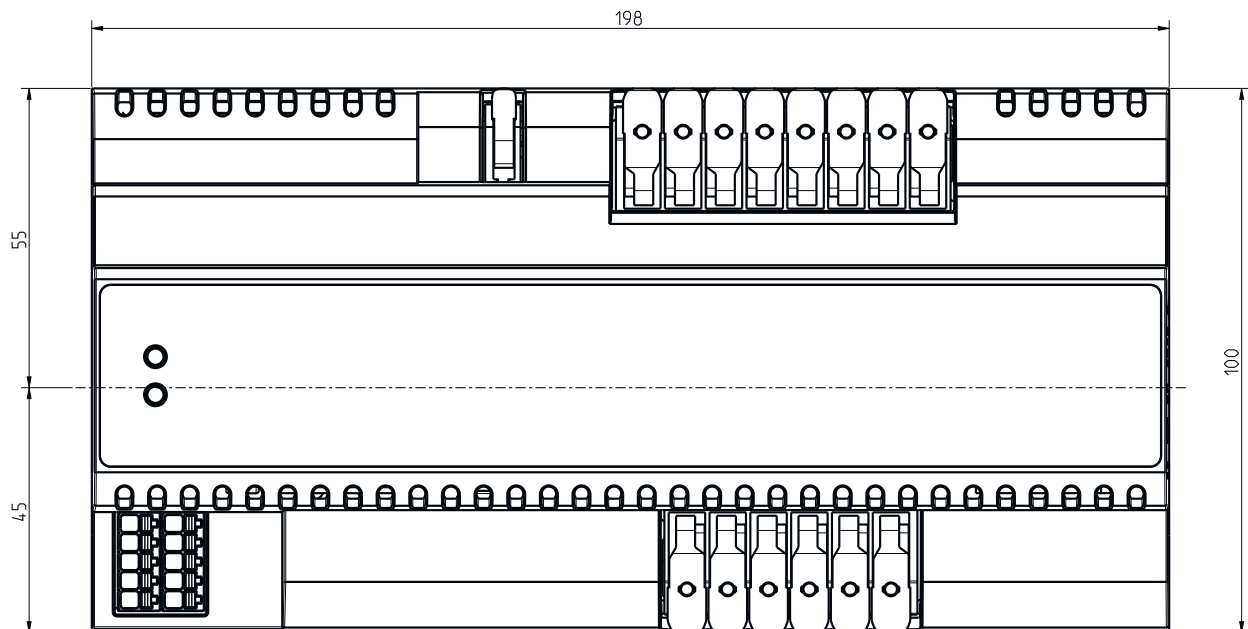
# Circuit diagram

## Fronius Backup Controller 4-pin separation, e.g., Germany



# Dimensions

# Fronius Backup Controller 3PN-35A







[fronius.com/en/solar-energy/installers-partners/products-solutions/monitoring-digital-tools](https://fronius.com/en/solar-energy/installers-partners/products-solutions/monitoring-digital-tools)

MONITORING &  
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