solaredge

SolarEdge Home Load Controller for SG Ready use

For inverters with SetApp configuration

For Europe

Version 1.4

Datasheet

Training

Application Note

System Requirements and Safety Information

System Requirements
- SolarEdge SetApp to connect to the inverter and upgrade firmware
- mySolarEdge to configure and read status
- iOS 10 or later or Android 6.0.1 or higher

Installation Placement Requirements
- The load controller is for indoor use only.
- To ensure correct operation, mount the Load Controller on the wall or in a cabinet.

Communication Board

Antenna

SE Home Network Plug-in

Safety Information
- For indoor use only
- Keep children away from the device
- DO NOT use with medical or life support equipment
- DO NOT use in wet or damp area
- DO NOT clean with liquid
- Test the device locally for safe operation before attempting to control it remotely
- Use Copper conductors only
- Installation in a closed metal enclosure degrades wireless performance and must be avoided
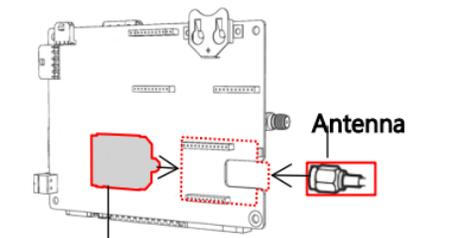
What's in the package

SolarEdge Home Load Controller

Din rail adapter

2X Screws for the din rail adapter

2X Screws for wall mounting

Double-sided tape

IMPORTANT:
Installation is allowed up to an altitude of 2000m.
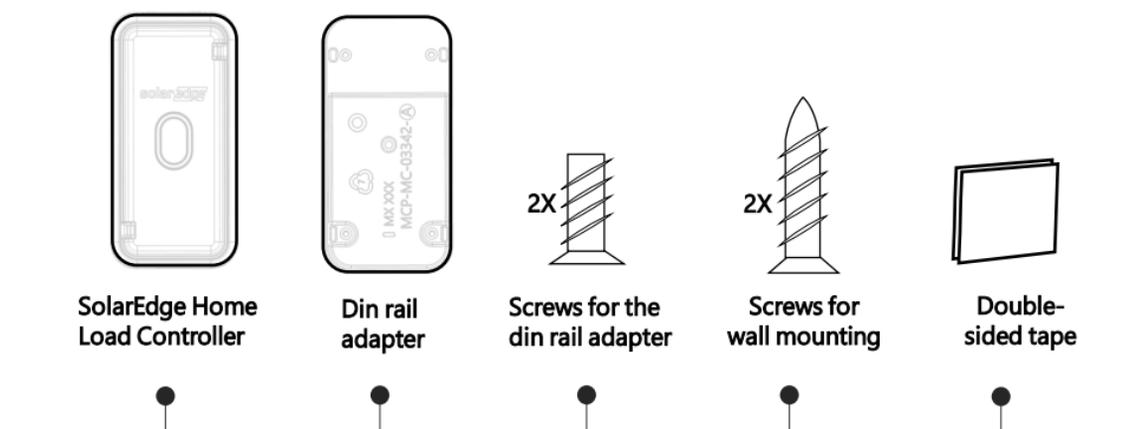
## 1 Mounting options

Choose one of the options below

Mount with screws
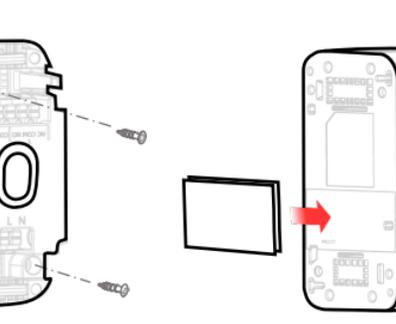
Mount with double sided tape
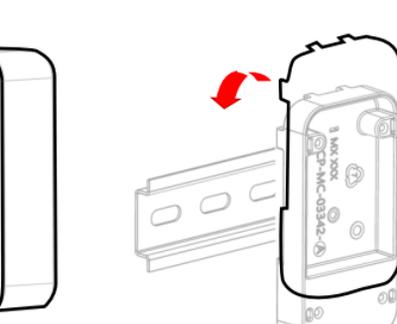
Mount with din rail adapter

2 Cabling

Choose one of two options below

2x Ø 20-14AWG

Ø 20-14AWG
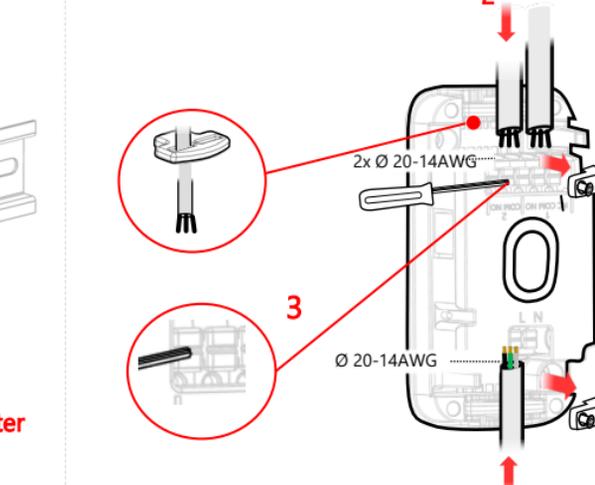
To insert cables from the top and bottom:
1. Fix the cable up to **Ø 0.16 inch in diameter** with cable rubbers.
2. Pull the through the pull relief.
3. Press the top connector to the conductor.
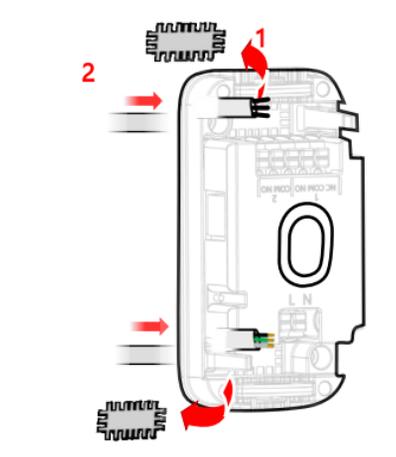
Insert cables from behind

⚠ ELECTRICAL SHOCK HAZARD

3 Wiring

Third party contactors or relays

SG Ready

Caution:
Verify that the A1/A2 coil contacts match the grid connection voltage. Alternatively, an additional power supply can be used.
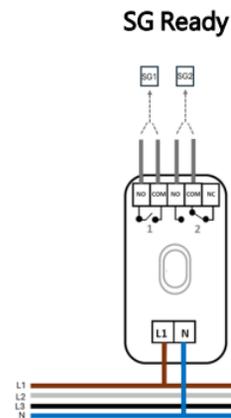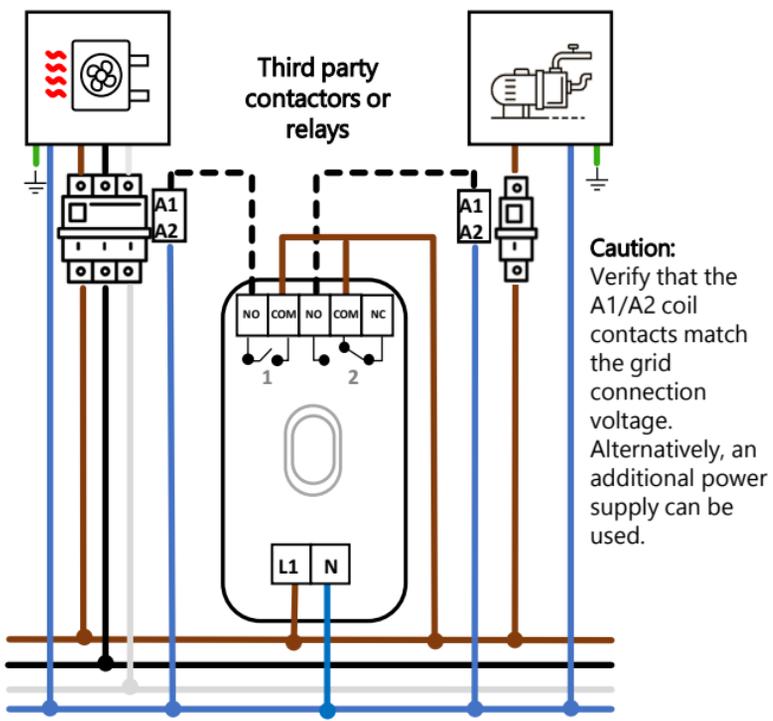
Caution:
Make sure that SG Ready 4 wires are connected to the SG Ready connectors on the Heat Pump's main controller. The SG Ready wires must not be connected to the AC feed of L1 or N.

L1
L2
L3
N

4 Pair with inverter

1

P 1 0

P (2 Sec)

2

SetApp

3
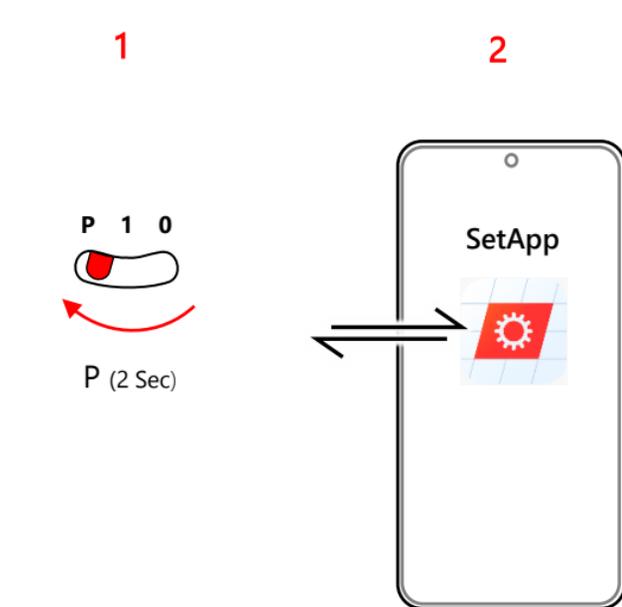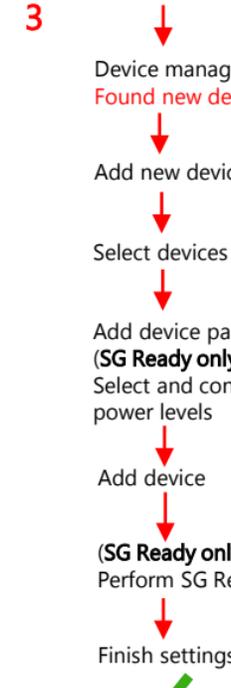
Commissioning

Device manager
Found new devices

Add new devices

Select devices

Add device parameters
(**SG Ready only**)
Select and configure two power levels

Add device

(**SG Ready only**)
Perform SG Ready Test

Finish settings
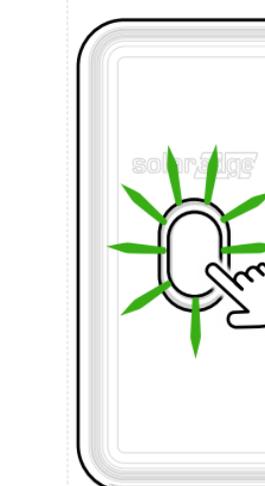
5a LED indications

Button Operation
- Press for <3 seconds to operate manually
- Hold >10 seconds to reset

LED Indications

LED Indications	Description
Blinking Blue	Scanning for a network or connection with Home Network is lost & load off
Blinking Green	Scanning for a network or connection with Home Network is lost & load on
Blinking Blue 30 seconds	Received request of identification
Blue	Connected to Home Network & load off
Green	Connected to Home Network & load on
Blinking Red	Error
Flickering Blue	Standby
Flickering Green 5 times	Reset done

5b LED indications – SG Ready

Button Operation
- If in SG Ready configuration, pressing the button switches the operation from **Auto** to **Manual** (color change **Blue** to **Green**).
- To switch back to **Auto**, press the button again (color change **Green** to **Blue**). In the mySolarEdge app the **Excess PV** toggle button needs to be toggled back to **Auto**.

LED Indications
- Blue LED – SG Ready operation in **Auto** mode is recommended.
- Green LED – SG Ready operation in **Manual**.

Specifications

Power	Value	Unit
AC Input Voltage	90-250	Vac
AC Frequency	50 / 60	Hz
Normally Open (NO) Contact Specifications	250 Vac up to 8 Aac / 30 Vdc up to 8 Adc	
Normally Close (NC) Contact Specifications	250 Vac up to 4 Aac / 30 Vdc up to 4 Adc	
Relay Switching Cycles	> 20,000	
Operating Hours	50,000	hr
Installation Altitude	2000	m
Power Consumption	< 1.5	W

Discard this product according to local regulations or send it back to SolarEdge.

Support Contact Information
If you have technical problems concerning SolarEdge products, please contact us:
https://www.solaredge.com/service/support
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December 2022.

⚠ ELECTRICAL SHOCK HAZARD
GEFAHR VON STROMSCHLÄGEN
ELEKTRISCH SCHOKGEVAAR
RISQUE DE CHOC ÉLECTRIQUE
PERICOLO DI SCOSSE ELETTRICHE
PELIGRO DE DESCARGA ELÉCTRICA