SolarEdge ONE Controller for C&I

Quick Installation Guide

Version 1.4

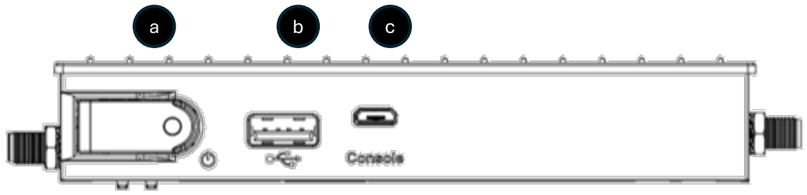
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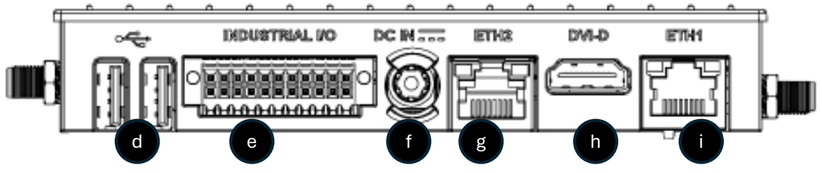
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ONE Controller for C&I
Quick installation guide

Interfaces and connectors



- a Power ON button with LED ⏻
- b Type A USB 3.0
- c Micro USB (serial debug console)

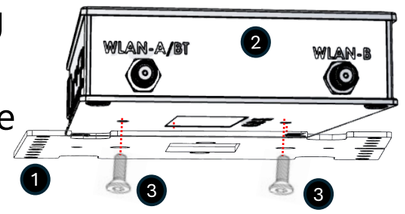


- d Type A USB2.0 x 2
- e Industrial I/O - 22-pin dual-row plug with push-in spring connections
- f DC Power input
- g RJ45 Ethernet2
- h DVI-D
- i RJ45 Ethernet1

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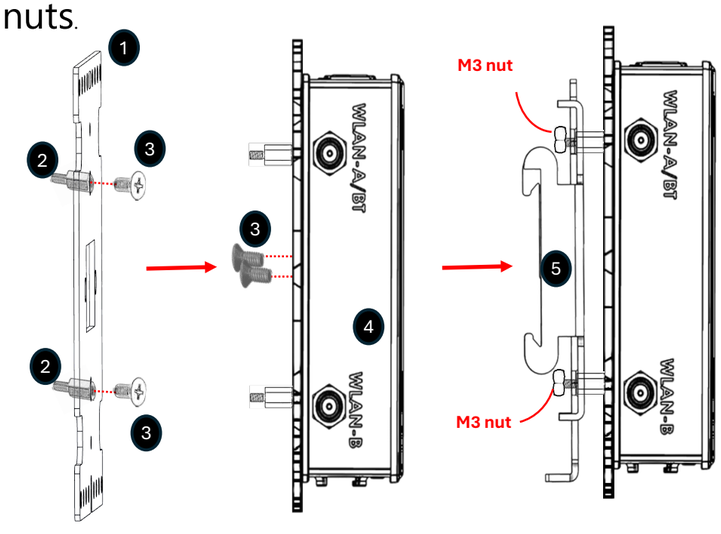
Installation - wall mount

Attach the wall mounting bracket 1 to the back of the controller 2 using the screws 3 provided.



Installation – DIN rail

1. Attach x2 standoffs 2 to wall-mount bracket 1 using screws 3
2. Attach wall-mount bracket to controller 4 using screws 3
3. Attach DIN rail mount 5 to the standoffs using M3 nuts.



Scanning the controller QR code
Leave at least 20cm space on the right-hand side.

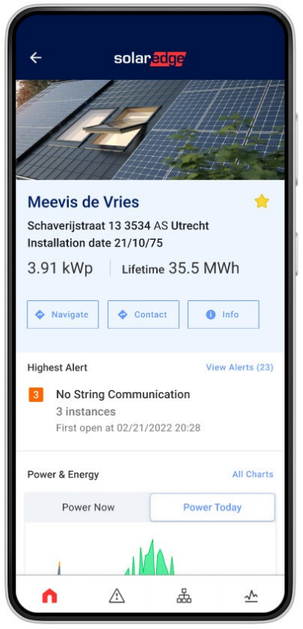
Connect the power adaptor cable to the controller DC power input jack



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Setting up

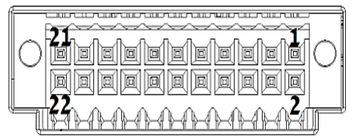
1. Connect an Ethernet cable between the controller ETH1 and the router.
2. Connect devices to the ONE Controller.
3. Download the SolarEdge GO App.
4. Plug the power adaptor into an AC outlet, the ONE Controller and the Power LED will turn ON. If not, press the Power ON button ⏻
5. Open the SolarEdge GO App and go to the chosen commercial site. Tap Add Device → SolarEdge ONE Controller → follow on-screen instructions.



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Industrial I/O

Pin-out is determined by the I/O modules configuration



INDUSTRIAL I/O

Pin	I/O	P domain	Pin	I/O	P domain
1	**RS485-1 A(+)**	1	12	-	3
2	CAN bus L(ow)	1	13	IN3	3
3	**RS485-1 B(-)**	1	14	-	3
4	CAN bus H(igh)	1	15	OUT0	3
5	**RS485-1 (G)**	1	16	OUT1	3
6	**RS485-2 B(-)**	2	17	OUT3	3
7	**RS485-2 A(+)**	2	18	OUT2	3
8	**RS485-2 (G)**	2	19	24V_IN	3
9	IN0	3	20	24V_IN	3
10	IN1	3	21	GND_3	3
11	IN2	3	22	GND_3	3

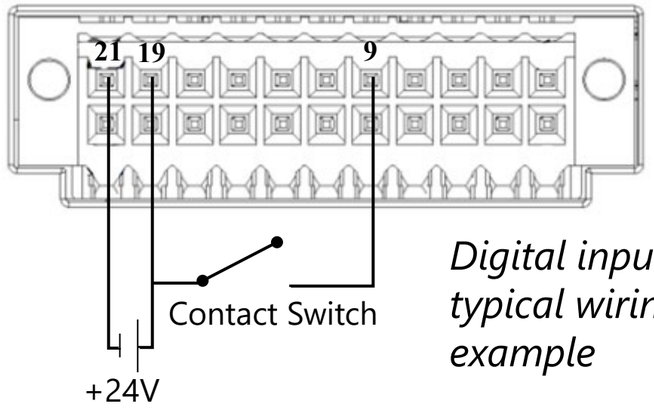
NOTE

Before wiring, connect the dual-raw plug.

Locking	Spring terminal
Wire cross-section	0,05mm² – 0,5mm²

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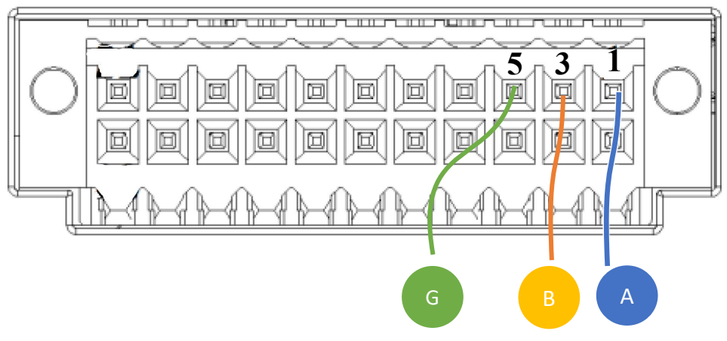
Digital I/O



Digital input – typical wiring example

RS485

- Supports devices such as meters, sensors, etc.
- Maximum cable length 1km
- Use CAT5e or CAT6 cable, or 3-wire shielded twisted pair (0.2 to 1mm^2)
- Insert the wire ends into the **A(+)**, **B(-)** and **G(⏚)** pins



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Specifications

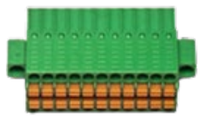
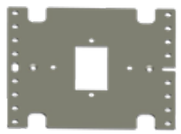
Power Adapter	100-240VAC 50/60Hz
External Communication	Ethernet: 1000Mbps Wi-Fi: 802.11ax, 2.4GHz and 5GHz
Environmental	Operational temperature: Industrial: -40°C to 80°C

Interface

Power ⏻	•Solid: Normal operation •Blinking: Booting or updating •Off: No power

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Accessories

Dual-row plug 	
Wall mount bracket 	5.5mm socket screwdriver 
DIN rail mount 	
2x antennas 	
DC power adaptor 	

Required tools

Phillips screwdriver



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Safety Information

- For indoor use only
- DO NOT use in a wet area
- DO NOT clean with liquid

For the ONE Controller datasheet, scan the QR code

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

Support contact information:
If you have technical problems concerning SolarEdge products, contact:
https://www.solaredge.com/service/support

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