### solaredge

# Three Phase Commercial Inverter

**Quick Installation Guide** 

PN: xSE-SIN-USxxlxxxx

For North America Version 1.1

Scan for full installation guide





### Legend



#### NOTE

This symbol denotes information intended to assist the user in making optimum use of the product.



#### CAUTIONI

Denotes a hazard. It calls attention to a procedure that, if not correctly performed or adhered to, could result in damage or destruction of the product. Do not proceed beyond a caution sign until the indicated conditions are fully understood and met.



#### WARNING

Denotes a hazard. It calls attention to a procedure that, if not correctly performed or adhered to, could result in injury or loss of life. Do not proceed beyond a warning note until the indicated conditions are fully understood and met.



Do not cut

Torque

connectors.



This symbol appears at grounding points on the SolarEdge manuals and equipment.



















Turn the P/1/0 Switch OFF, After turning OFF the switch wait at least 5 minutes for DC voltage to decrease to a safe level before removing the front panel.

Turn OFF the main circuit board DC Switch. After turning off, wait at least 5 minutes for DC voltage to decrease to a safe level before removing the front panel.

Turn OFF the AC Disconnect Switch. After turning OFF, wait at least 5 minutes for DC voltage to decrease to a safe level before removing the front panel.



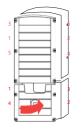
3. Turn OFF the AC Disconnect switch before you unscrew the cover.





Fasten screws in described order.

9.0N·m / 6.6lbf·ft 10.3N·m / 7.6 lbf·ft (plastic)



SAVE THESE INSTRUCTIONS - This manual contains important instructions for the Three Phase Inverter that shall be followed during installation and maintenance.



WARNING! Upon servicing or replacing equipment, instructions in the installation manual must be followed to maintain the integrity of the PV hazard control system. SolarEdge commercial optimizers and three phase inverters should only be replaced with SolarEdge commercial optimizers and inverters. Third party equipment is not compatible.

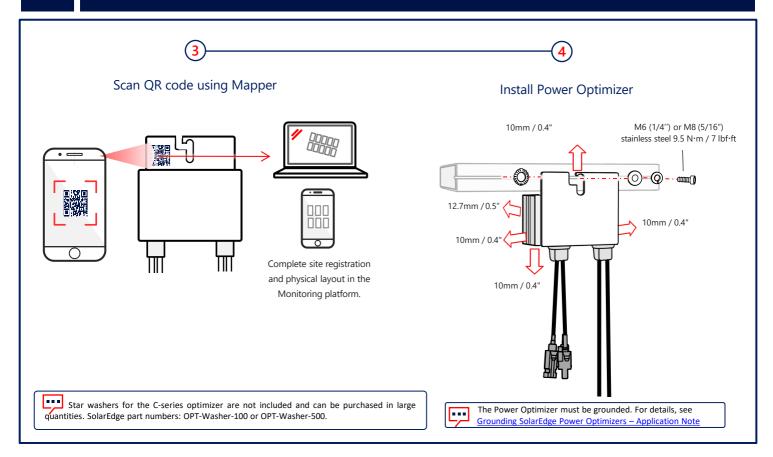


THREE PHASE INVERTERS, INCLUDE A PHOTOVOLTAIC RAPID SHUTDOWN SYSTEM (PVRSS). SUCH INVERTERS, INCORPORATE ONE OR MORE PIECES OF EQUIPMENT THAT EXERCISE THE RAPID SHUTDOWN CONTROL OF PV SYSTEM CONDUCTORS REQUIRED BY SECTION 690.12 OF THE NEC (NFPA 70). OTHER EQUIPMENT INSTALLED IN OR ON THIS PV SYSTEM MAY ADVERSELY AFFECT THE OPERATION OF THIS PVRSS. IT IS THE RESPONSIBILITY OF THE INSTALLER TO ENSURE THAT THE COMPLETED PV SYSTEM MEETS THE APPLICABLE RAPID SHUT DOWN FUNCTIONAL REQUIREMENTS. THIS EQUIPMENT MUST BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS

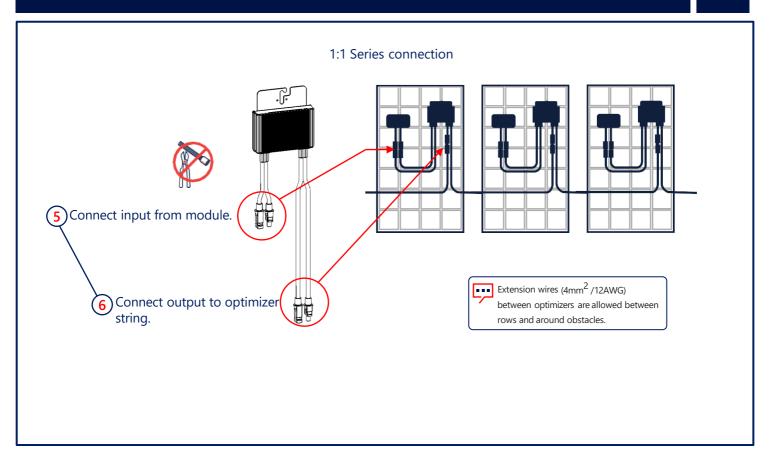
# Install the Power Optimizers



# Install the Power Optimizers

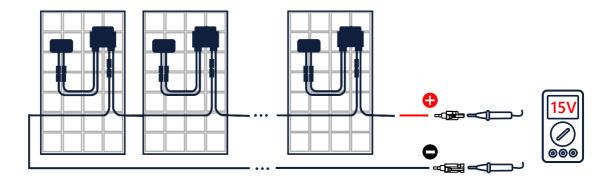


# Install the Power Optimizers



# Connect the PV Array





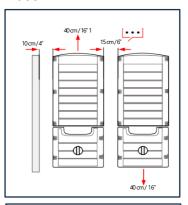
Check array polarity.

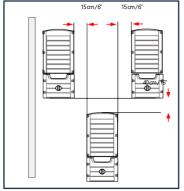
Verify 0.5+/-0.075V per optimizer

Example: 30 optimizers = ~15V

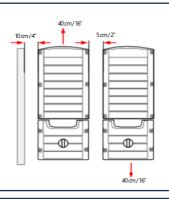
### Maintain Clearance

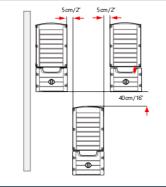
#### Indoor

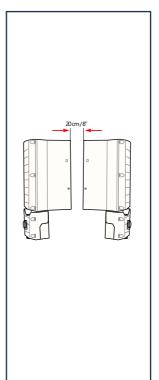




#### Outdoor



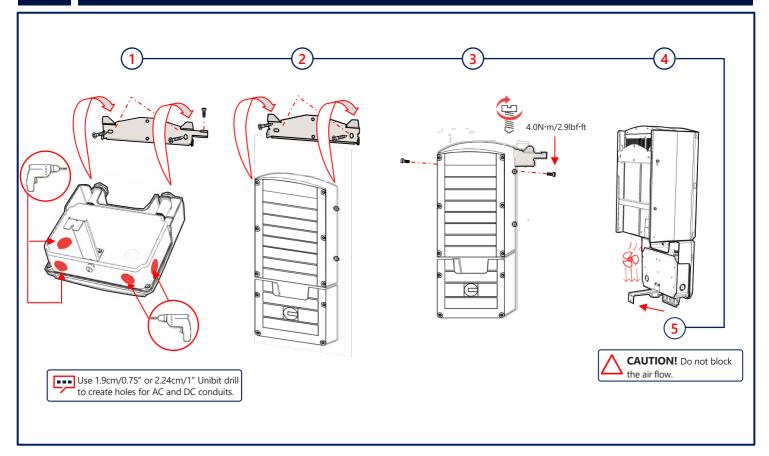




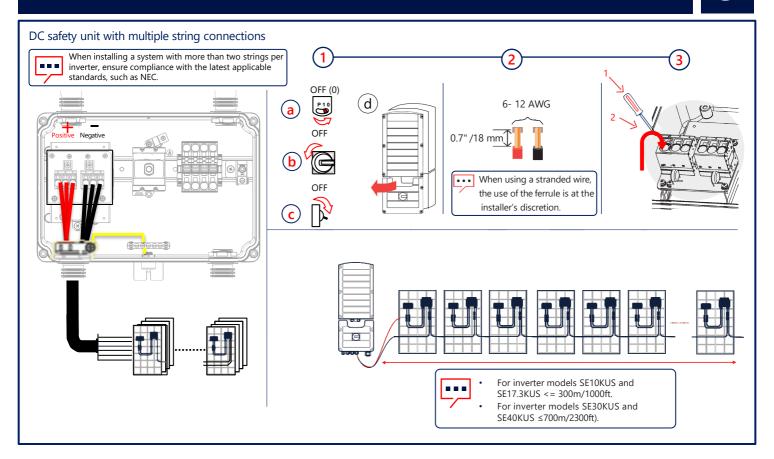


20cm / 8" where annual average high temperature equals or above 25°C / 77°F

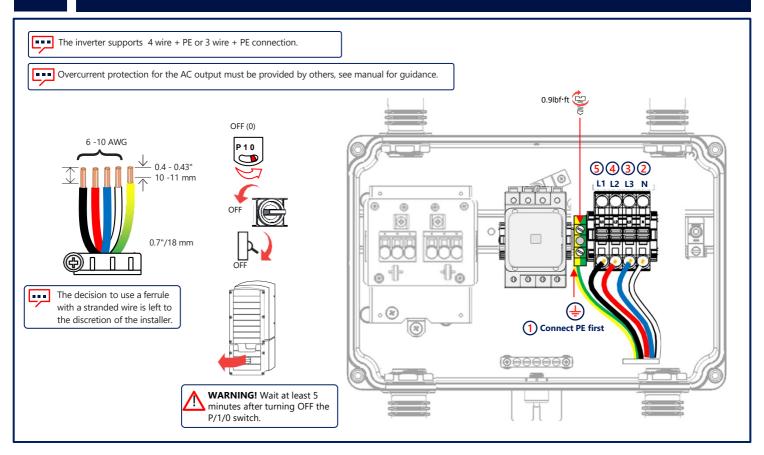
### Install the Inverter



### Connect the PV Array Cables



### Connect AC and Protective Earth



# Set up Communication

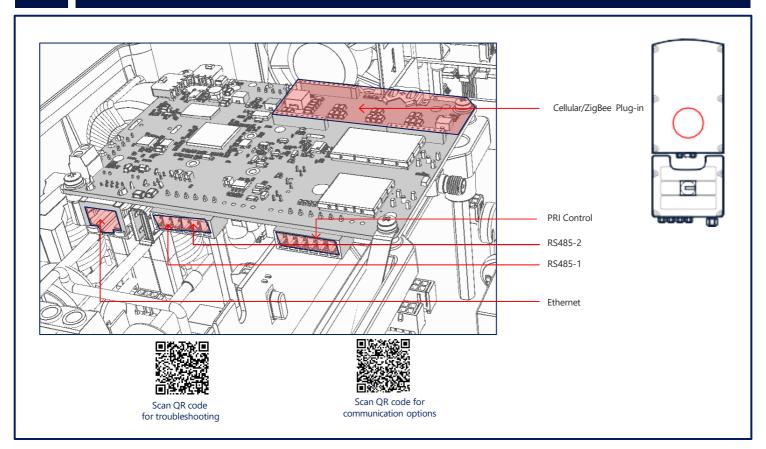
#### Built-in:

- Ethernet, see p. 11
- RS485, see pp. 12-13

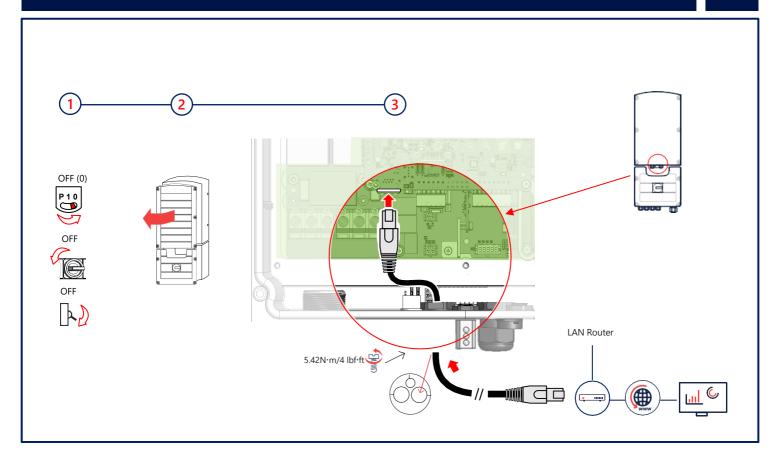
#### Optional

Device	lmage	QR Code
Wireless Gateway		
Cellular Plug-in		

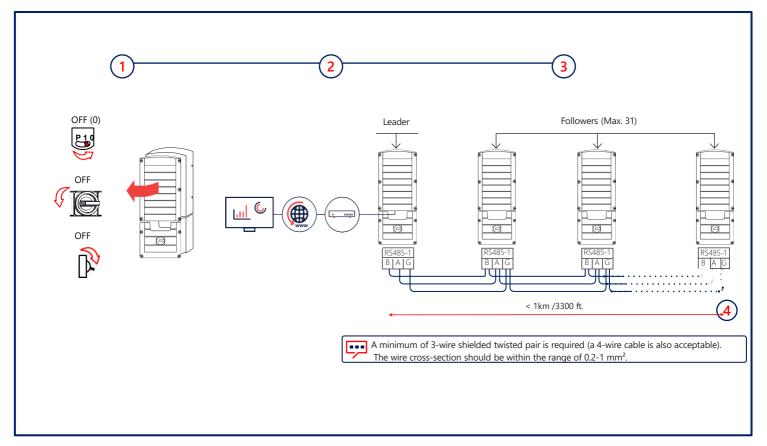
# Set up Communication



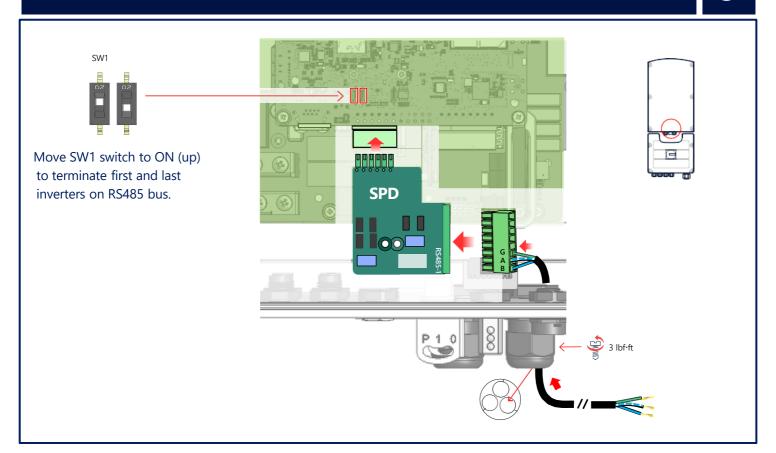
### **Establish Ethernet Communication**



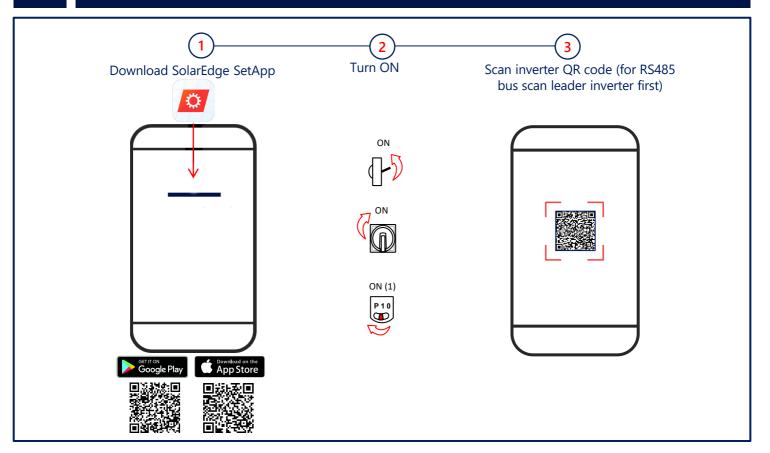
### Establish RS485 Bus Connection



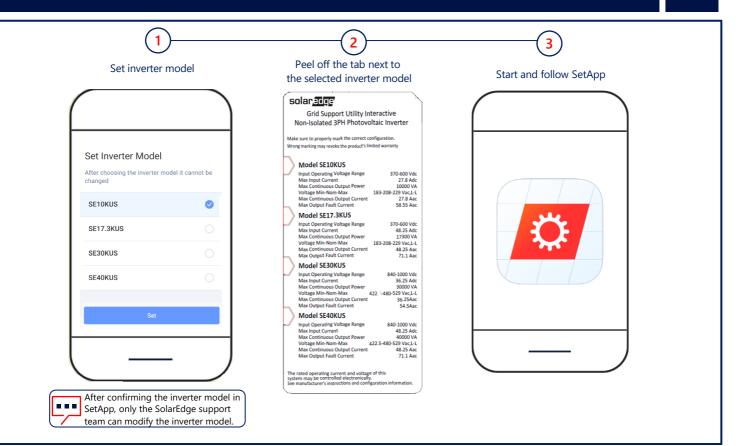
### Establish RS485 Bus Connection



# Commission the Inverter

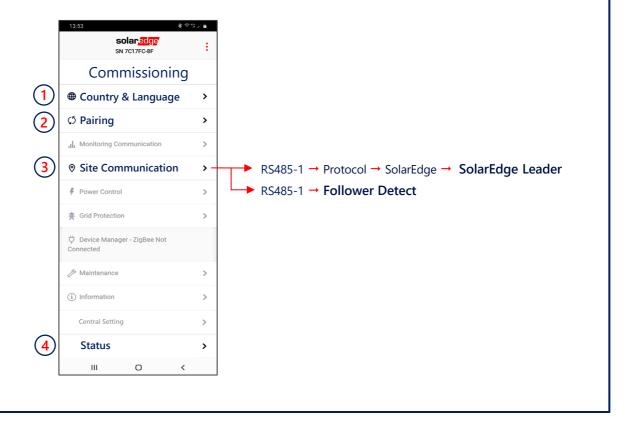


# Commission the Inverter 10



### Commission the Leader Inverter





# View System Status



SetApp Status screen



Monitoring platform



Main LEDs Indications





# **Product Information and Support**

### For the latest updates, see:

Quick Installation Guide (online)



Datasheet



SolarEdge Customer Support



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#### **Support Contact Information**

If you have technical problems concerning SolarEdge products, please contact us: <a href="https://www.solaredge.com/service/support">https://www.solaredge.com/service/support</a>

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