solaredge

Three Phase Inverter with Synergy Technology

Quick Installation Guide

PN: SExxK-xxxxlxxxx

For North America Version 1.6

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 the cable connectors



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



Turn ON/OFF the main circuit board AC switch. When turning off, wait 5 minutes for DC Voltage to drop to safe level before removing the front panel.

Turn the DC Disconnect Switch on/off. When turning off, wait 5 minutes for DC Voltage to drop to safe level before removing the front panel.





Turn the ON/OFF/P Switch on/off. When turning off, wait 5 minutes for DC Voltage to drop to safe level before removing the front panel.

Before connecting aluminum wires to terminals:



- 1. Remove oxide from the exposed wires with emery paper or a steel wire brush
- 2. Clean dust with a cloth and Isopropyl alcohol (IPA)
- 3. Coat wires with a designated antioxidant aluminum wire grease immediately after cleaning



CAUTION! Connection of oxidize aluminum wires may result in resistance and high temperatures at contact points. Improper execution of the following procedure may cause damage to the unit.

SAVE THESE INSTRUCTIONS - This manual contains important instructions for the Three Phase Inverter with Synergy Technology that should be followed during installation and maintenance. Using this equipment in a manner not specified in this guide by SolarEdge may impair the protection provided by this equipment.



MARNING! 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.

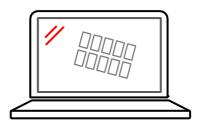
Marning! Synergy unit, pn: Sesuk-USRxxxxx, include a photovoltaic rapid shutdown system (pvrss). Such units, incorporate one or more pieces of EQUIPMENT THAT EXERCISE THE RAPID SHUTDOWN CONTROL OF PV SYSTEM CONDUCTORS REQUIRED BY SECTION 690.12 OF THE NEC (NFPA 70), OTHER EQUIPMENT INSTALLED IN OR ON 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

Notes

Installing the Power Optimizers



Use SolarEdge Designer to design SE system https://designer.solaredge.com





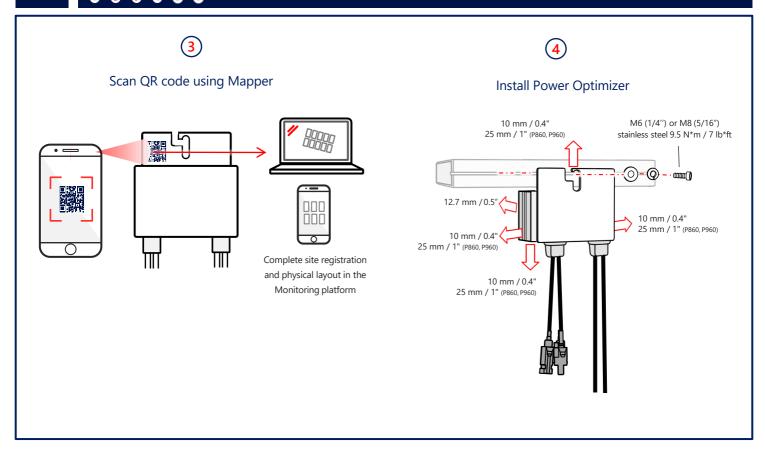
Download SolarEdge Mapper to map string Power Optimizers



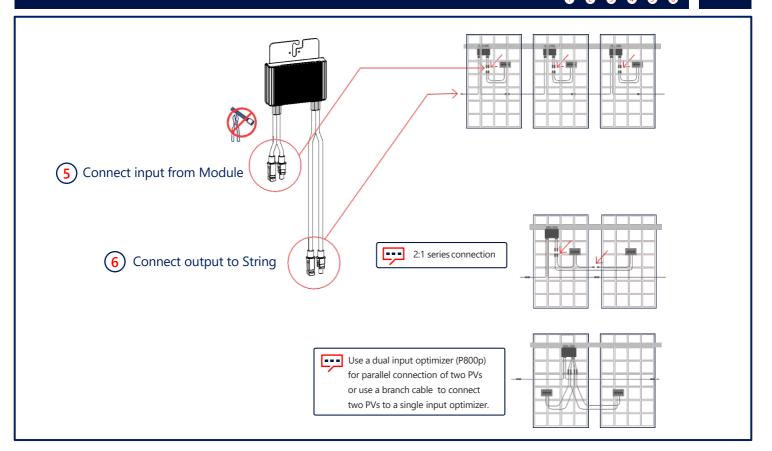




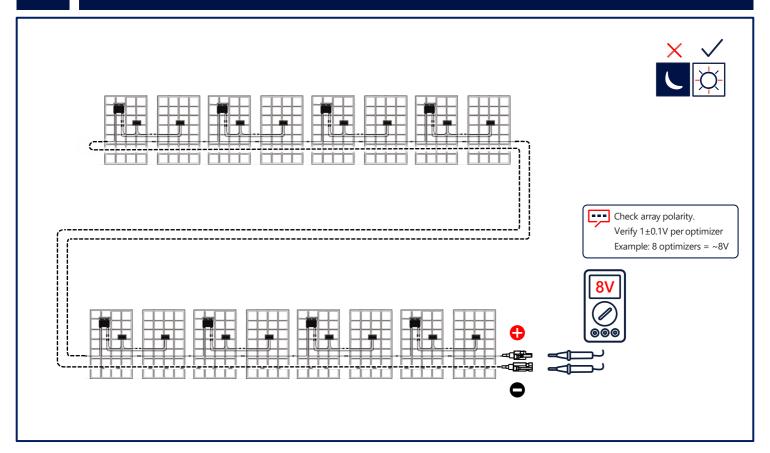
Installing the Power Optimizers



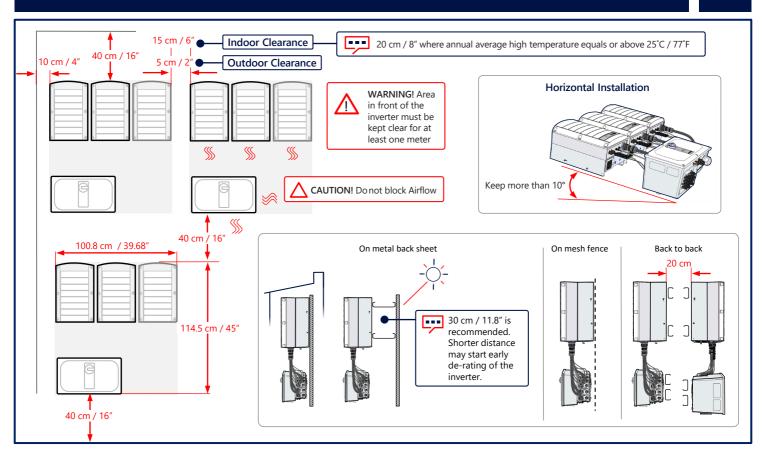
Installing the Power Optimizers



Connecting the PV Array

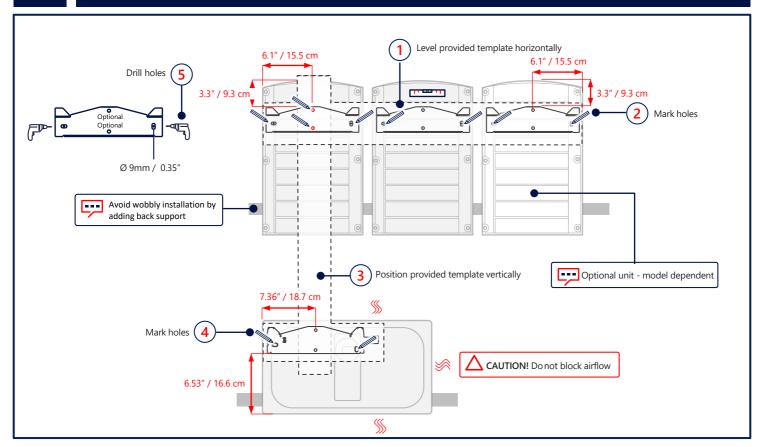


Maintaining Clearance

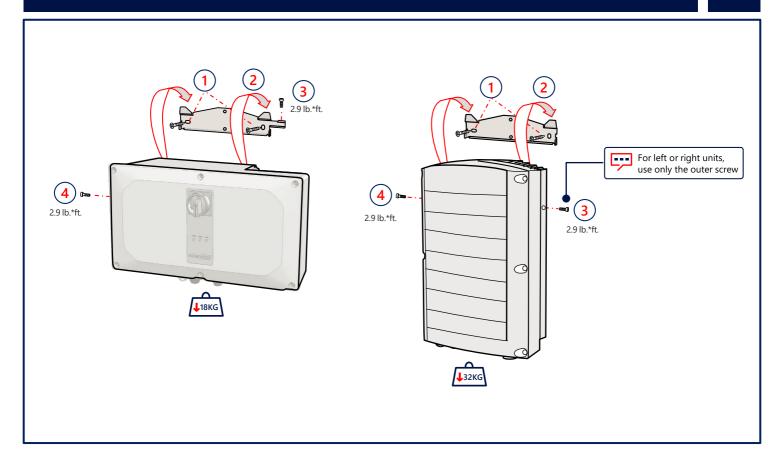




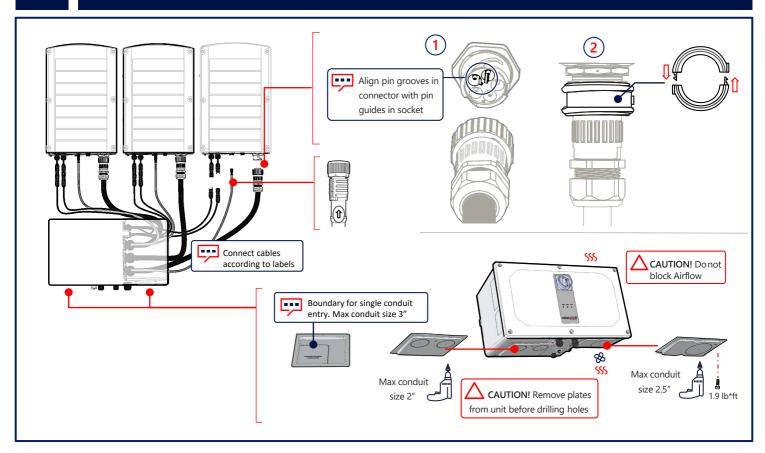
Marking & Drilling Holes



Mounting the Units



Connecting Cables



Removing Covers

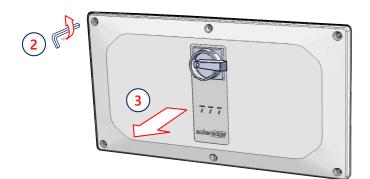


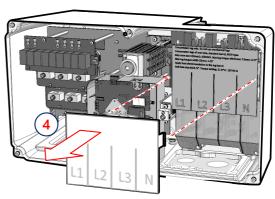




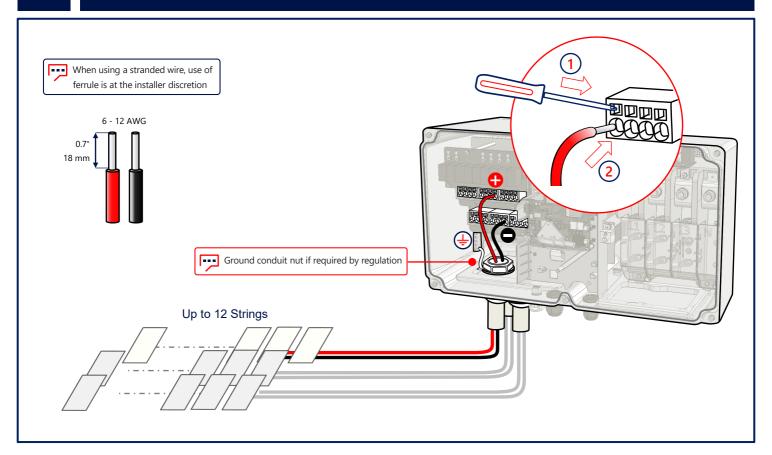


DISCONNECT POWER BEFORE BEGINNING INSTALLATION

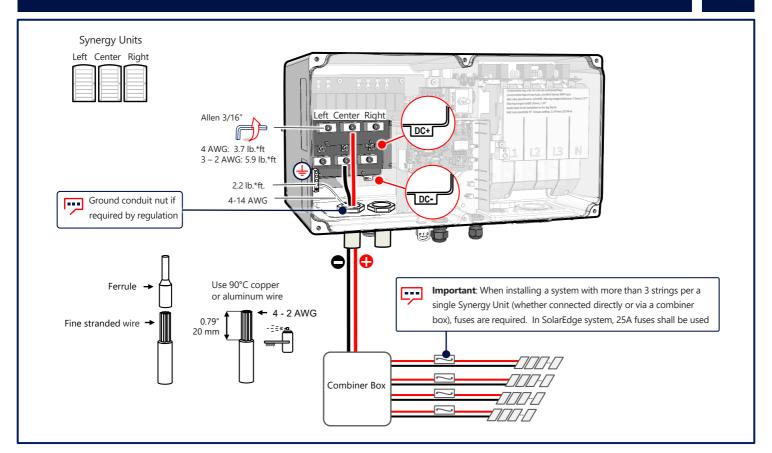




Connecting PV Strings (Option 1)

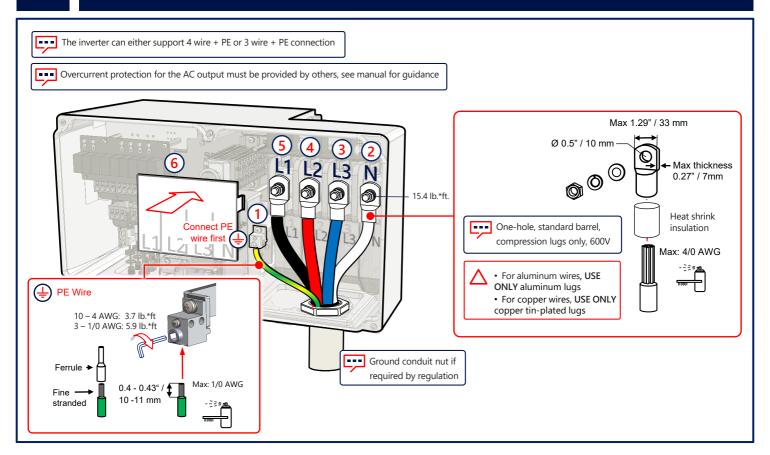


Connecting PV Strings (Option 2)

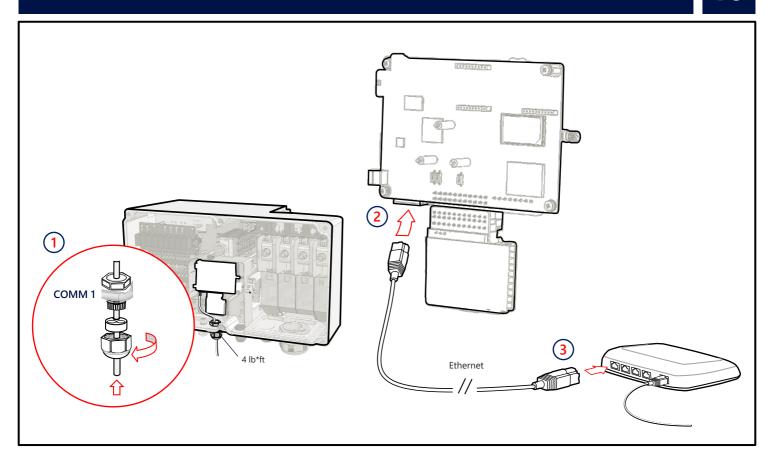


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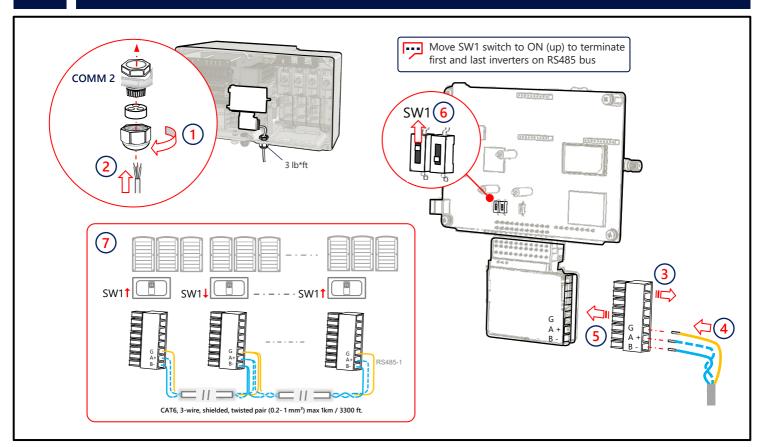
Connecting AC and Protective Earth



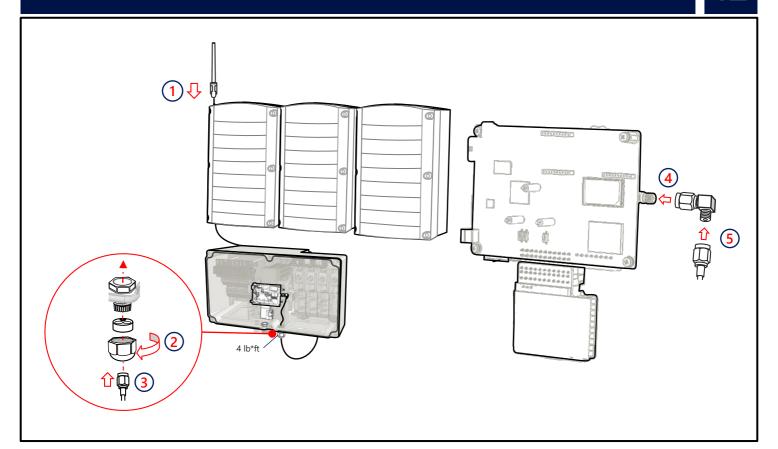
LAN Communication



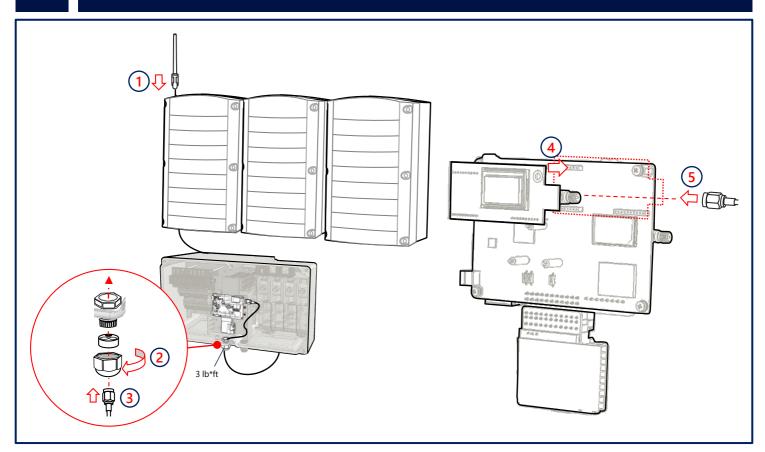
RS485 Connection of Multiple Inverters



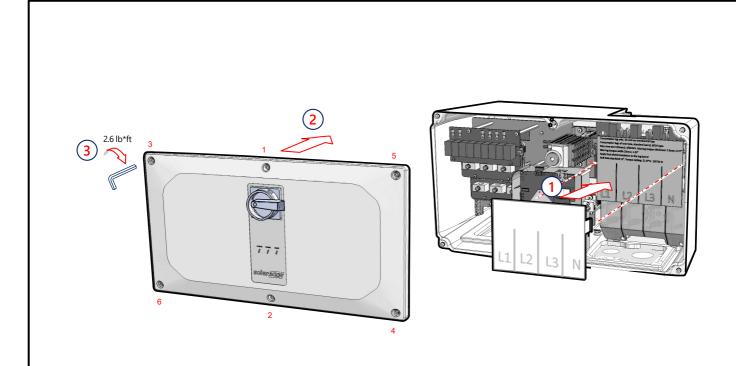
Connecting Wi-Fi Communication (Optional)



Connecting Cellular Communication (Optional)



Installing Covers



Pre-commissioning when AC Power is Not Connected (Option 1)

1 Download SolarEdge SetApp



3 Connect power bank

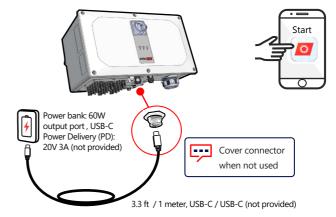
(4) Start and follow SetApp











- 5 Disconnect and remove power bank
- 6 Turn switches to OFF
- (7) Wait until inverter turns-off (all LEDs turn-off)



Commissioning with DC and AC Power (Option 2)



Download SolarEdge SetApp









Turn switches to ON





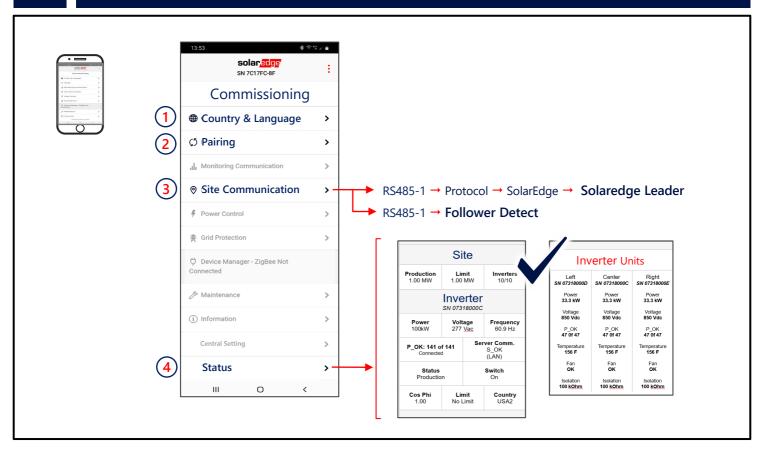


Start & follow SetApp

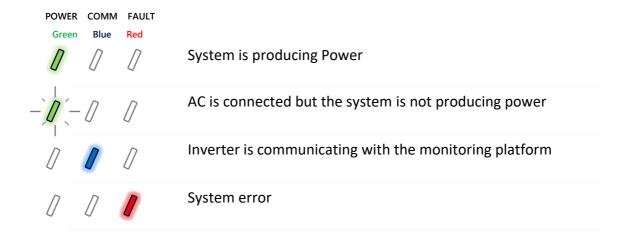


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Commissioning the Leader Inverter



LED Indications



Notes

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Support Contact Information

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

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