solar<mark>edge</mark>

Three Phase Inverter with Synergy Technology

Quick Installation Guide

PN: SExxK-xxxxIxxxx

For North America Version 1.3 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

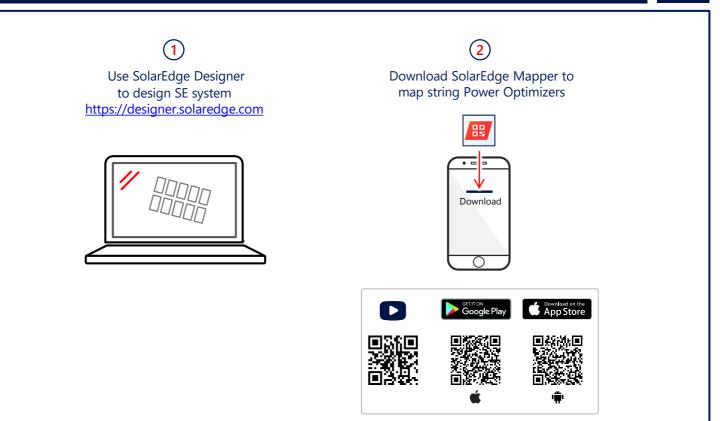
CAUTION! Connection of oxidize aluminum wires may result in resistance and high temperatures at contact points. Improper execution of the following procedure may cause damage to the unit.

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.

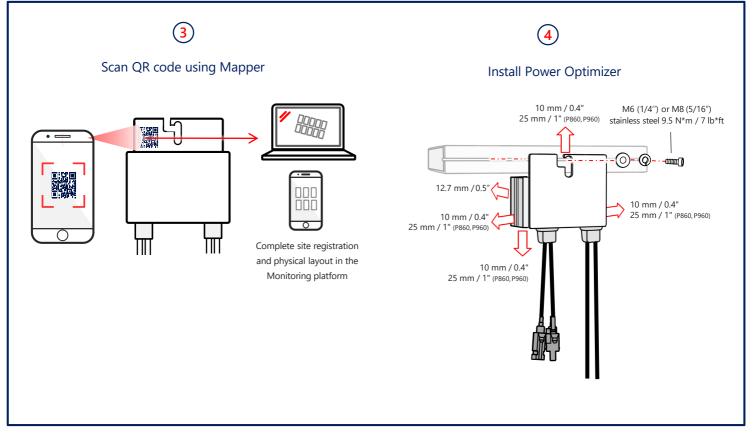
MARNING! Upon servicing or replacing equipment, instructions in the installation manual must be followed to maintain the integrity of the PV hazard control system. SolarEdge commercial optimizers and three phase inverters should only be replaced with SolarEdge commercial optimizers and inverters. Third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

🗥 🗥 WARNING! SYNERGY UNIT, PN: SESUK-USRXXXX, 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

Installing the Power Optimizers

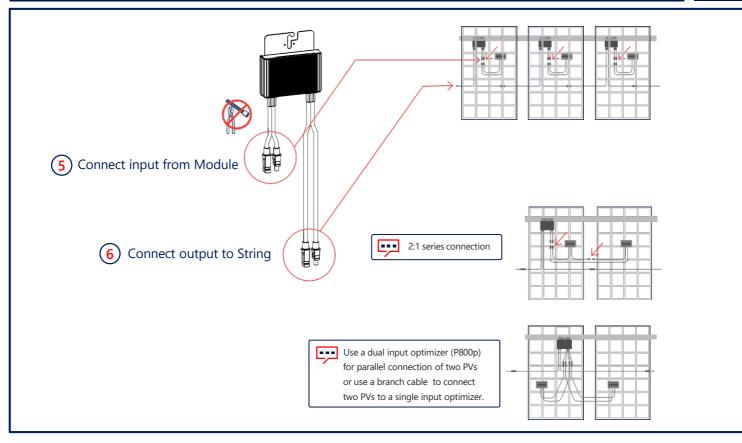


Installing the Power Optimizers



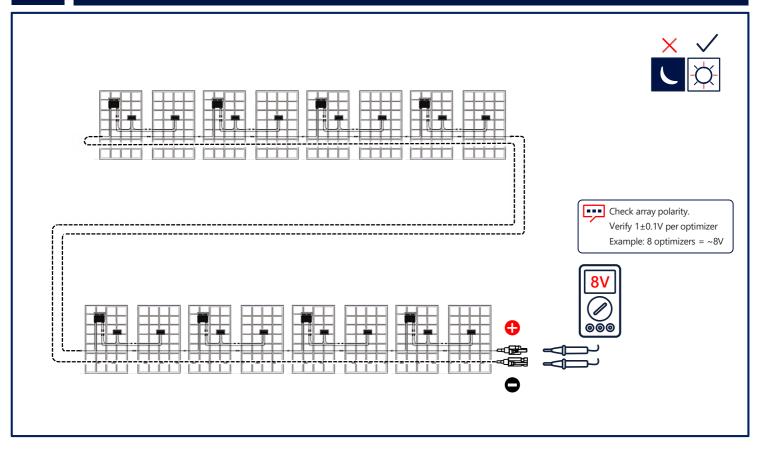


Installing the Power Optimizers





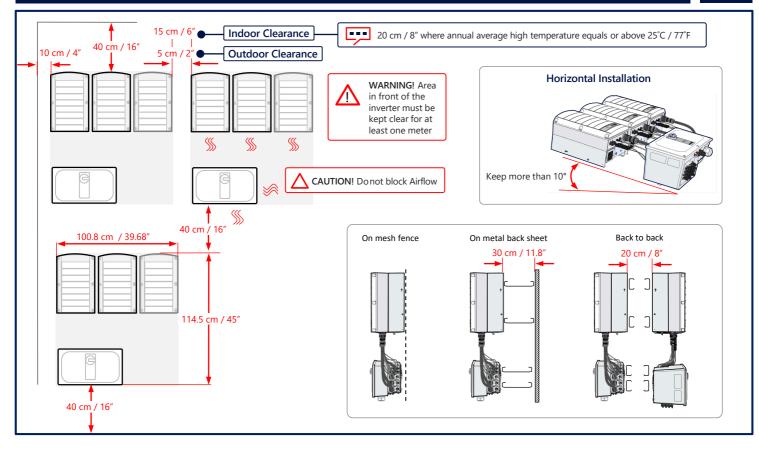
Connecting the PV Array



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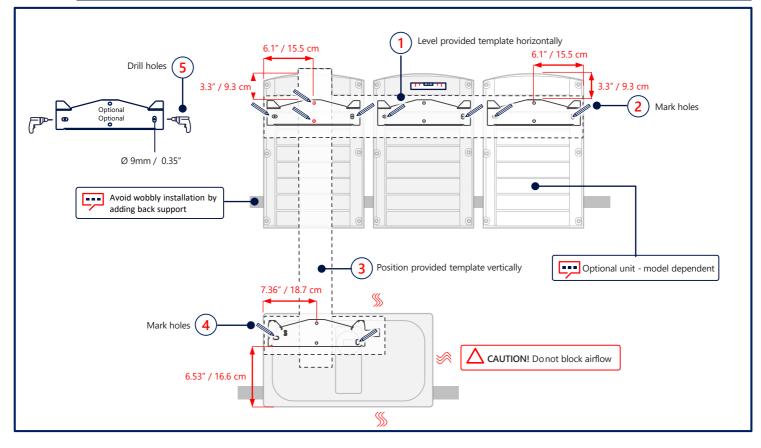
3

Maintaining Clearance



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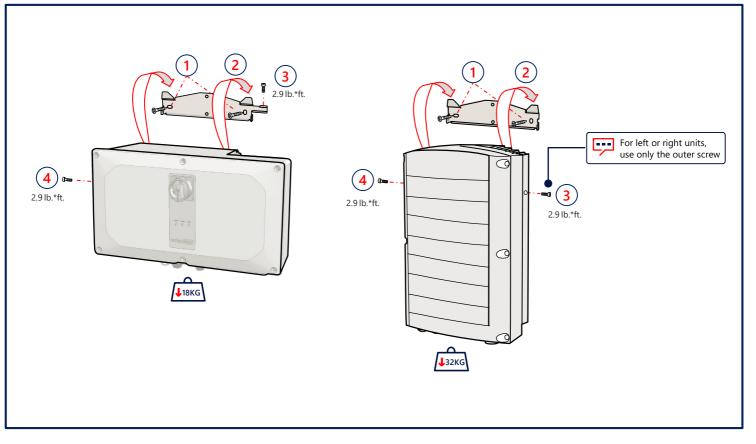
Marking & Drilling Holes



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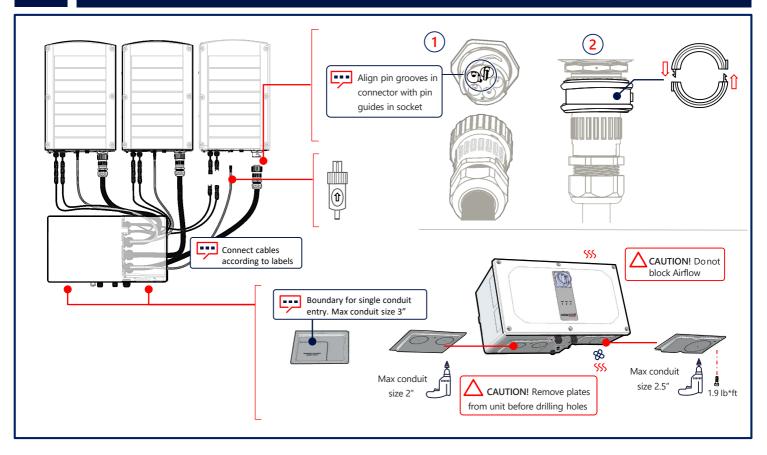
5

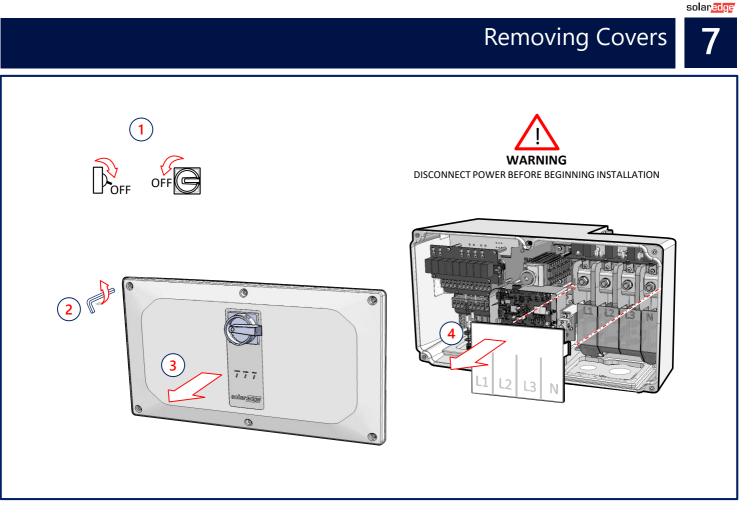
Mounting the Units



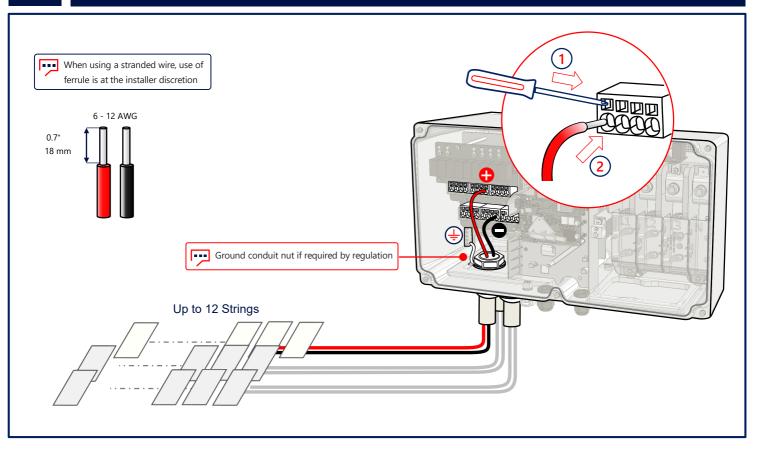


Connecting Cables



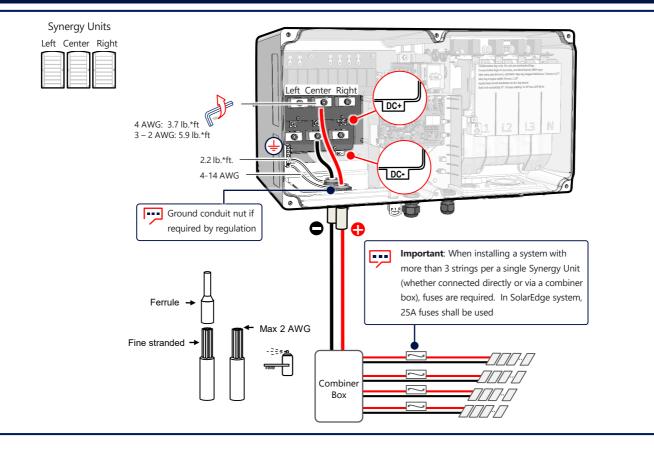


Connecting PV Strings (Option 1)





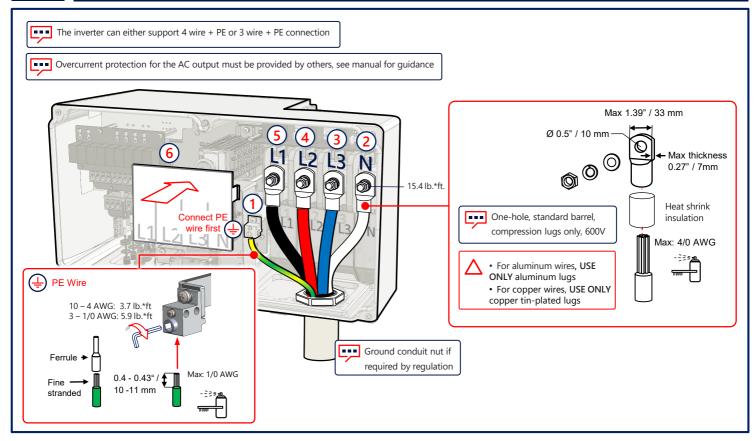
Connecting PV Strings (Option 2)



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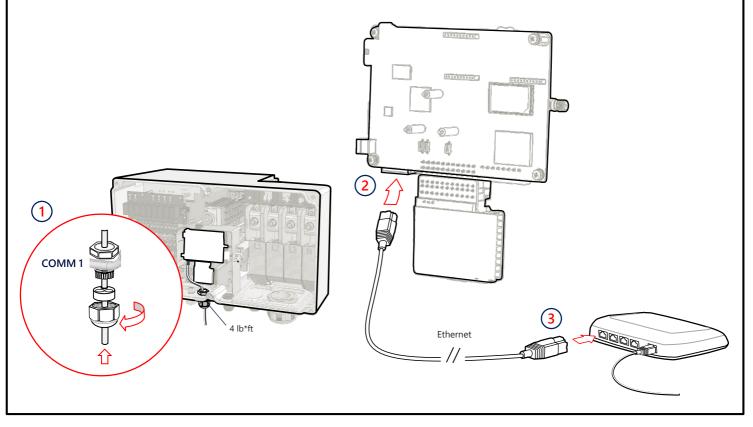


Connecting AC and Protective Earth

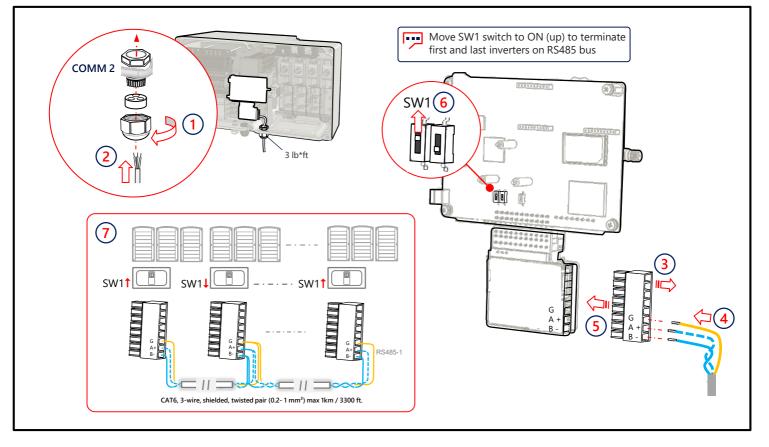




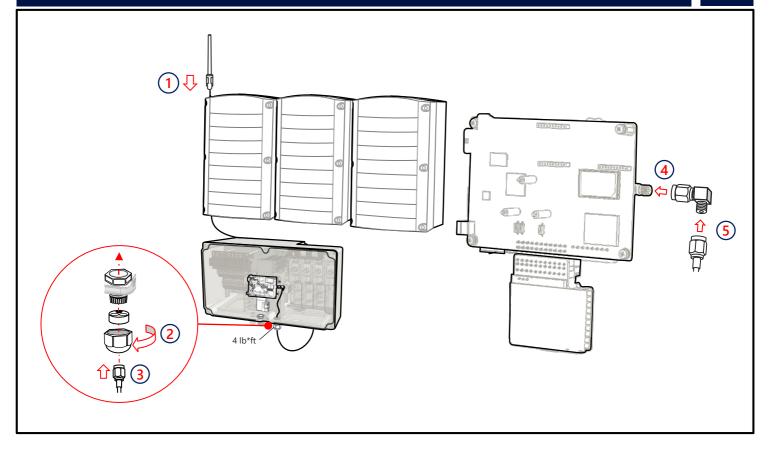
LAN Communication **10**



RS485 Connection of Multiple Inverters

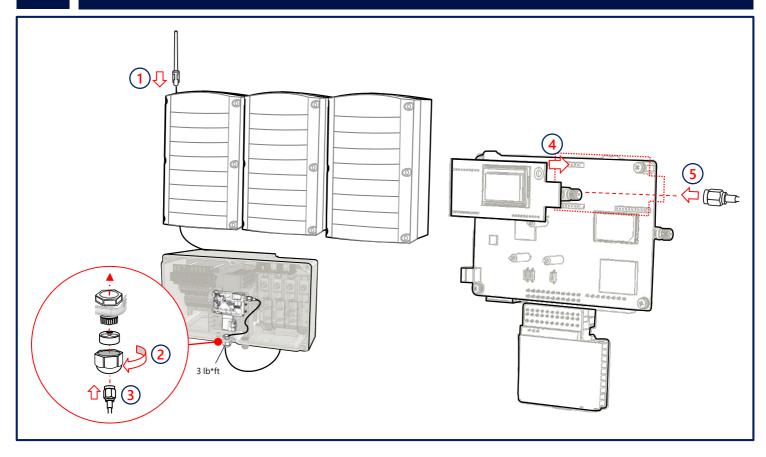


Connecting Wi-Fi Communication (Optional)



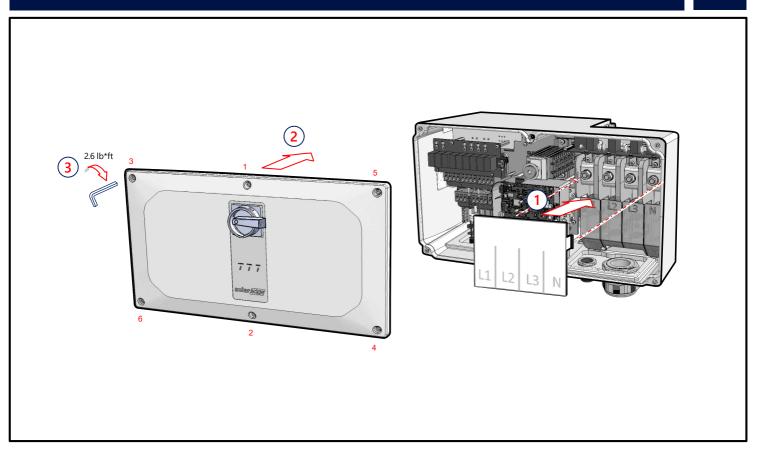
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3 Connecting Cellular Communication (Optional)



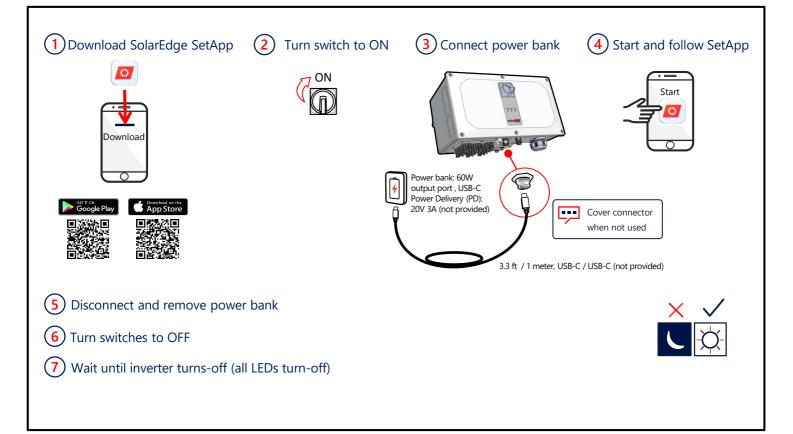
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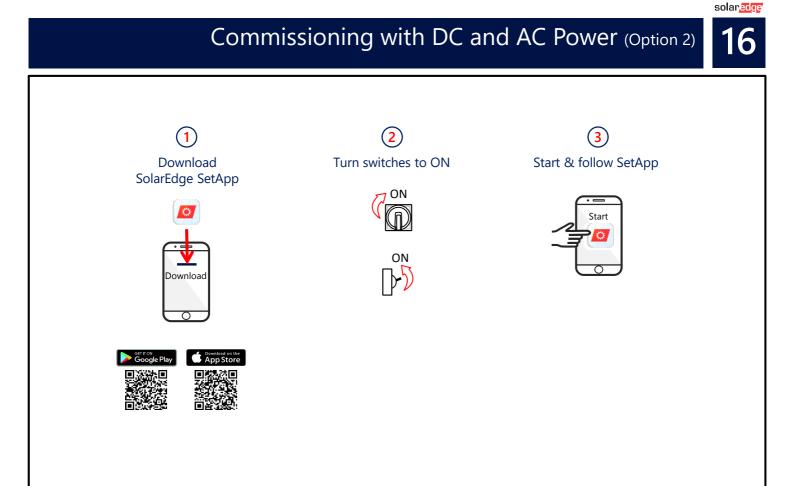
Installing Covers





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

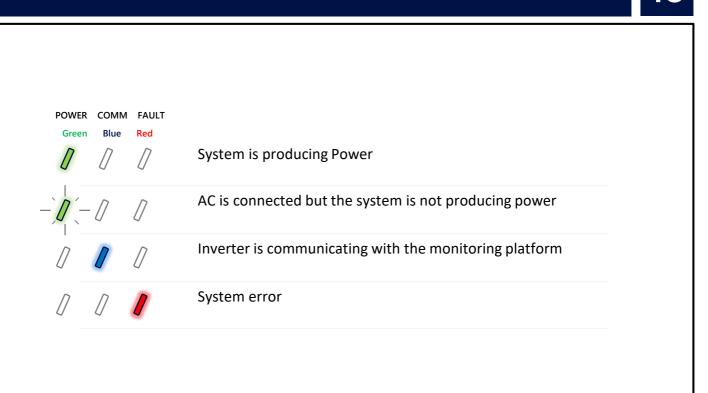




17 Commissioning the Leader Inverter

solar<mark>edge</mark> SN 7C17FC-8F	÷	÷ .						
Commissioning								
Country & Language	>	>						
Ø Pairing	>	>						
, Monitoring Communication	>	>						
Site Communication	> -	> RS	485-1 →	Protoc	col → Sola	rEdge → S	olaredg	je Lea
Power Control			105 1		wer Dete	ct		
7 Power Control	>	> 🛏 RS	485-1 →	FOIIO	wer Dete	ci –		
Grid Protection	>		485-1 →	FOIIO				
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査 Grid Protection			Production 1.00 MW		Inverters		Center	Right
斉 Grid Protection		>	Production 1.00 MW	Site	Inverters 10/10	Left sv or3180000 Power 33.3 kW	Center SN 07318000C Power 33.3 kW	Right SN 07318 Powe 33.3 kM
	>	>	Production 1.00 MW	Site Limit 1.00 MW	Inverters 10/10	Left SW 073180000 Power 3.3 KW Voltage 850 Vdc P. CK	Center SN 07318000C Power 33.3 kW Voltage 850 Vdc P_OK	Right SN 073180 Power 33.3 kV Voltage 850 Vdi
今 Grid Protection ウ Device Manager - ZigBee Not Connected の Maintenance	>	>	Production 1.00 MW	Site Limit 1.00 MW Inverte SN 07318000 Voltage 277 Vac	Inverters 10/10 PC Frequency 60.9 Hz Sorver Comm. Sork	Left SN 07318000D Power 33.3 kW Voltage 850 Vdc	Center SN 07318000C Power 33.3 kW Voltage 850 Vdc	Right SN 073180 Power 33.3 KM Voltage 850 Vdc P_OK 47 0f 47 Temperatu 156 F
Grid Protection Overlage Analoger - ZigBee Not Connected Maintenance Information	>	> > > >	Production 1.00 MW Power 100kW P OK: 141 o	Site Limit 1.00 MW Inverte SN 07318000 Voltage 277 Vac f141	Inverters 10/10 PC Frequency 60.9 Hz Server Comm.	Left sN 07318000D Power 33.3 kW Voltage So Vdc P, OK 47 07 47 Temperature	Center SN 07318000C Power 33.3 kW Voltage 850 Vdc P_OK 47 of 47 Temperature	Right SN 073180 Power 33.3 kW Voltage 850 Vda P_OK 47 0f 47 Temperati

LED Indications



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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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