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Three Phase Inverter with Synergy Technology

Quick Installation Guide

PN: SEKxx-AUxxIxxxx

For Australia 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.

CAUTION!

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.

When turning off, wait 5 minutes for DC Voltage

to drop to safe level before removing the front

Turn the DC Disconnect Switch on/off.



OFF (0) ON (1) P 1 0 P10 œ.

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:

panel.

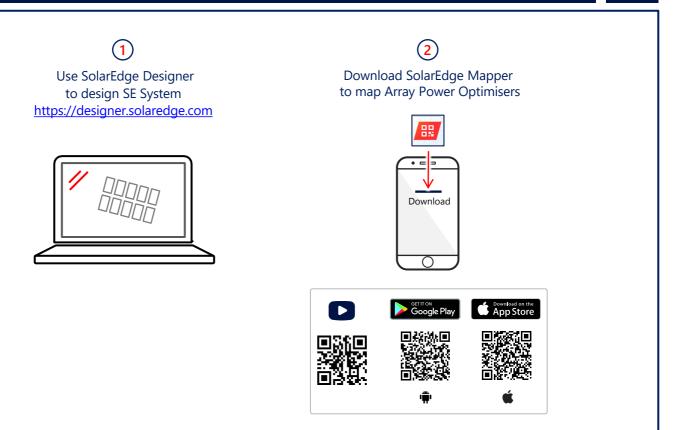
- 1. Remove oxide from the exposed wires with emery paper or a steel wire brush
- 2. Clean dust with a cloth and Isopropyl alcohol (IPA)
- 3. Coat wires with a designated antioxidant aluminum wire grease immediately after cleaning

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.

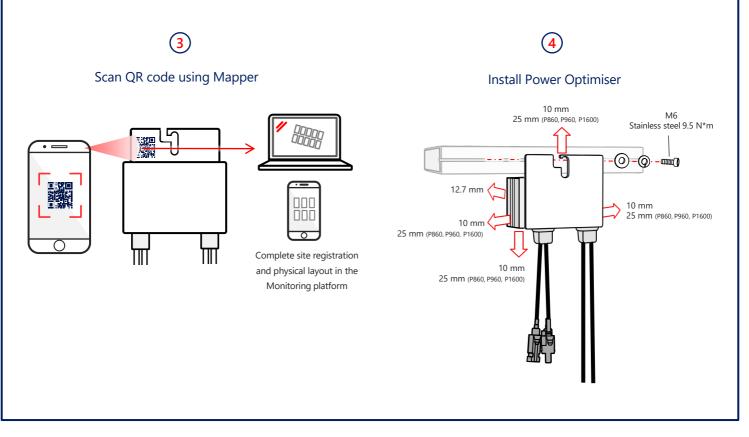
SAVE THESE INSTRUCTIONS – This manual contains important instructions for the Three Phase Inverter with Synergy Technology that should be followed during installation and maintenance. Using this equipment in a manner not specified in this guide by SolarEdge may impair the protection provided by this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

Notes

Installing the Power Optimisers

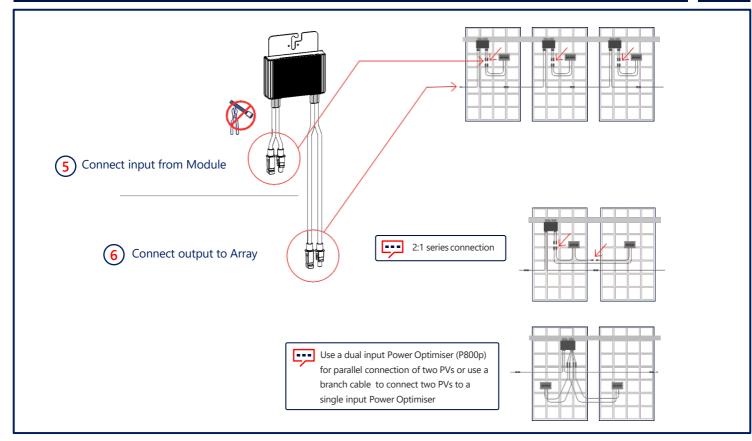


Installing the Power Optimisers



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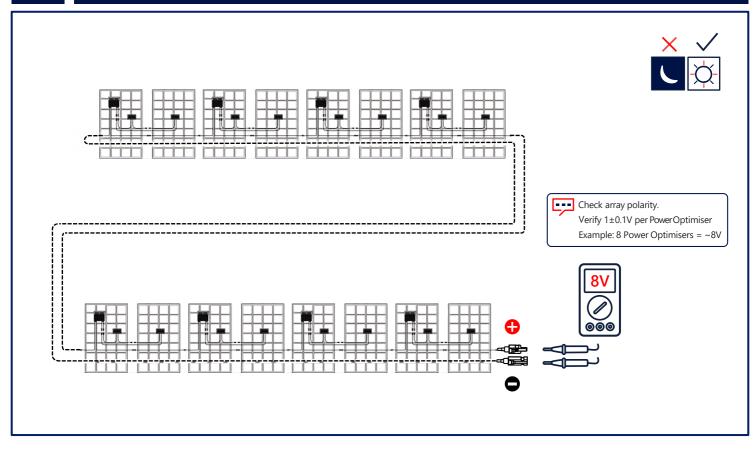
Installing the Power Optimisers





2

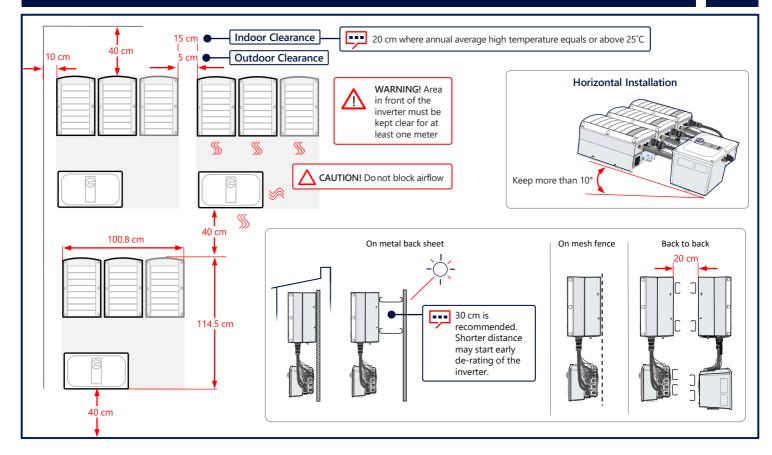
Connecting the PV Array



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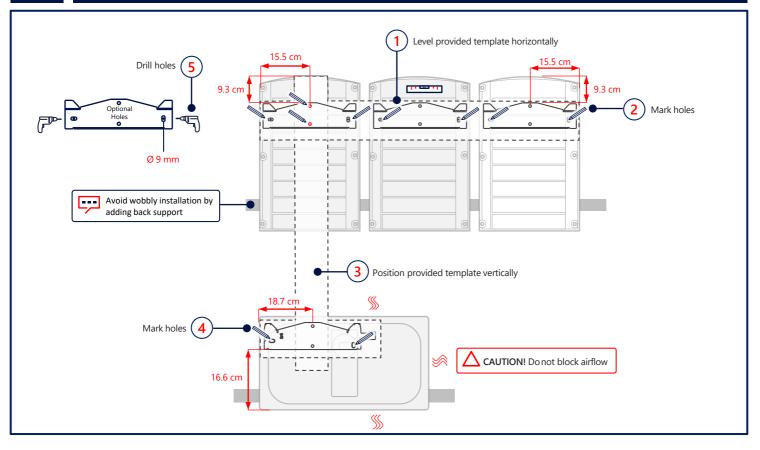
3

Maintaining Clearance



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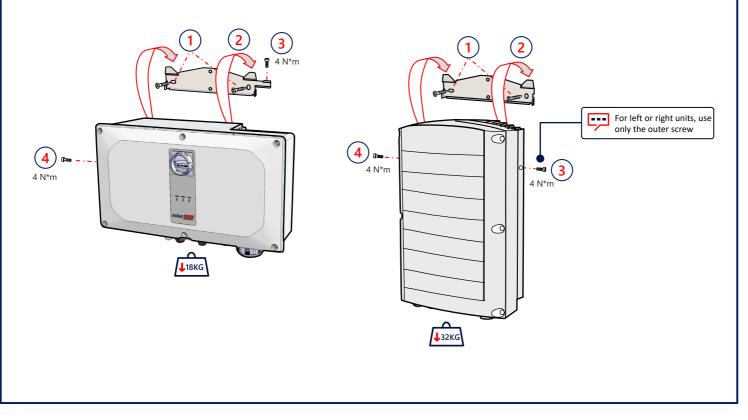
Marking & Drilling Holes



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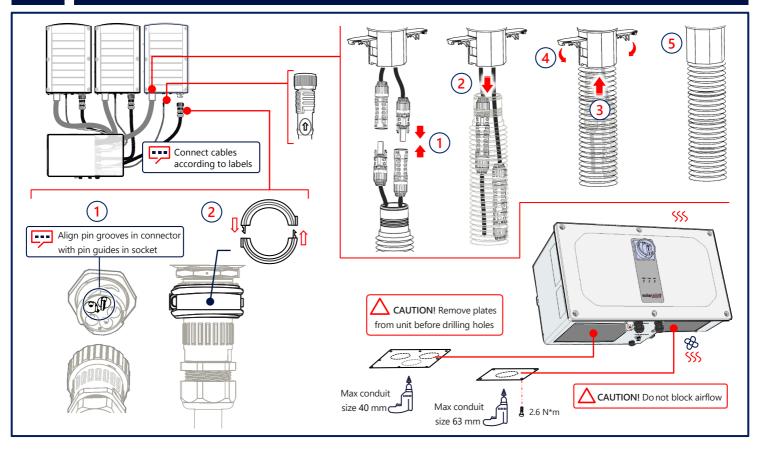
Mounting the Units





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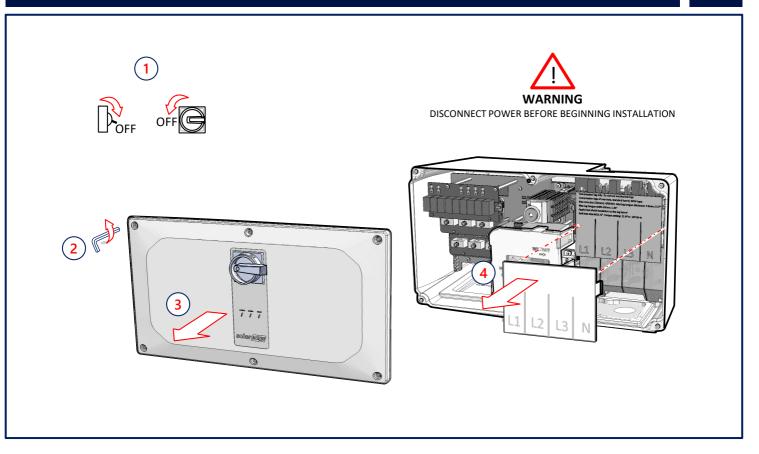
Connecting Cables



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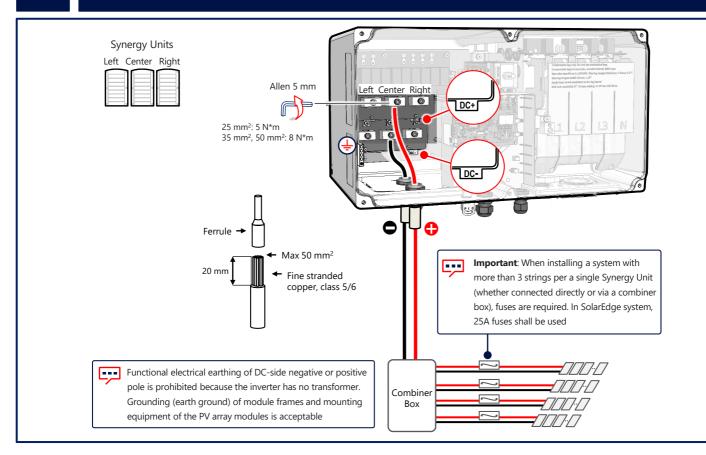
7

Removing Covers



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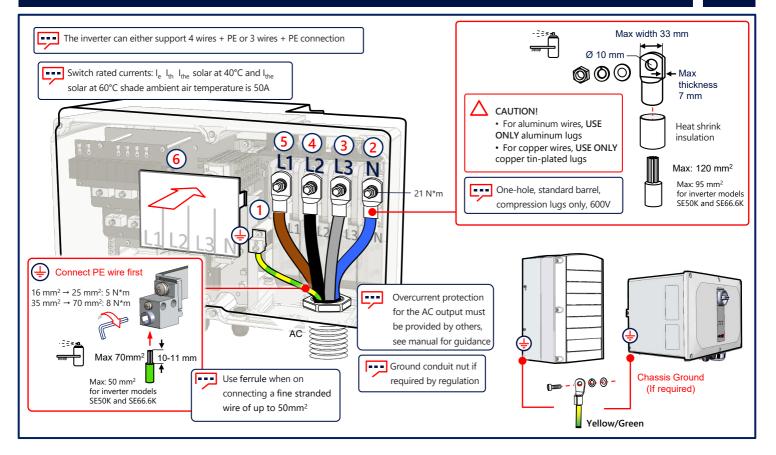
Connecting PV Strings via Single DC Input



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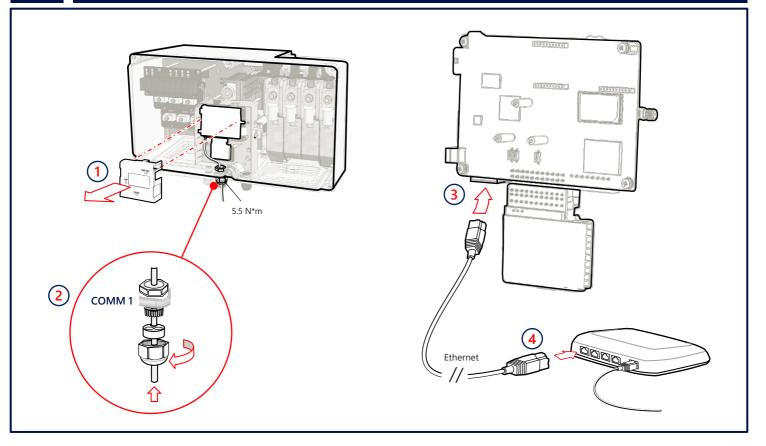
9

Connecting AC and Protective Earth (PE)

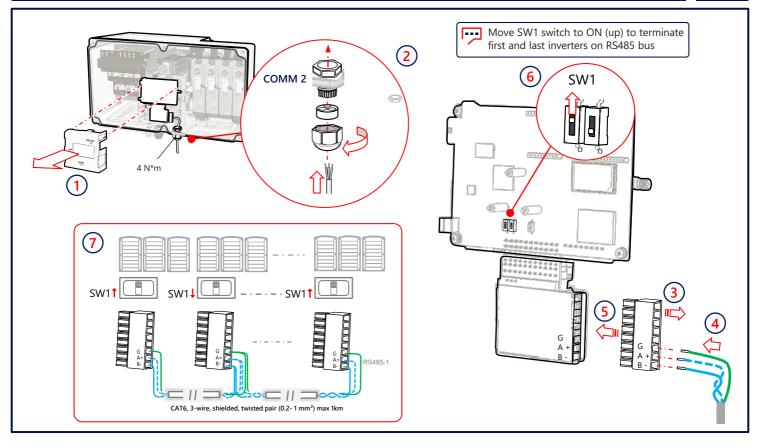




LAN Communication



RS485 Connection of Multiple Inverters

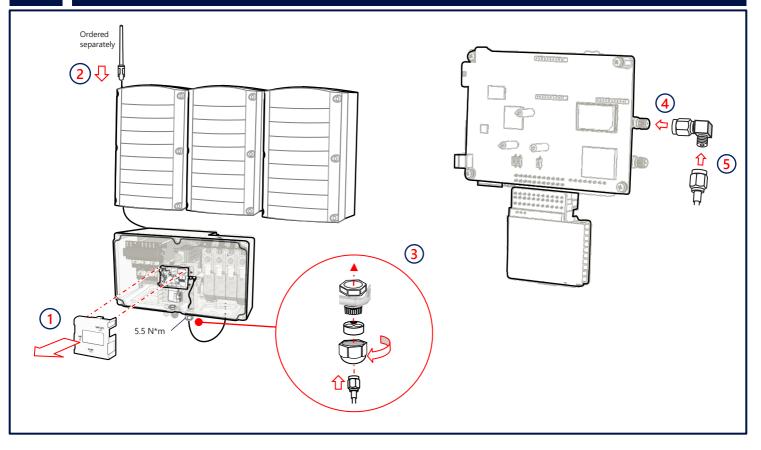


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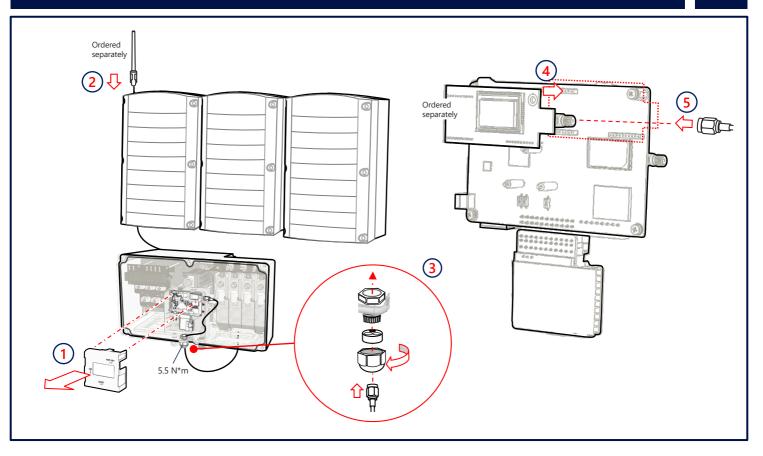
12 Wi-Fi Communication (Optional)

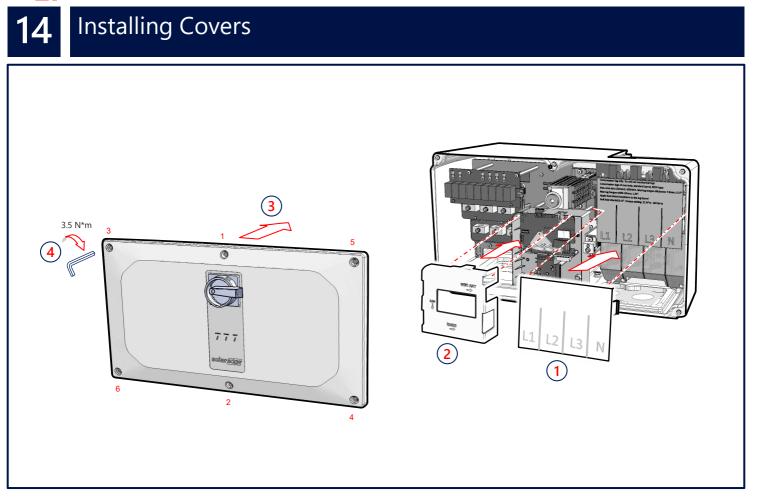


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Connecting Cellular Communication (Optional)

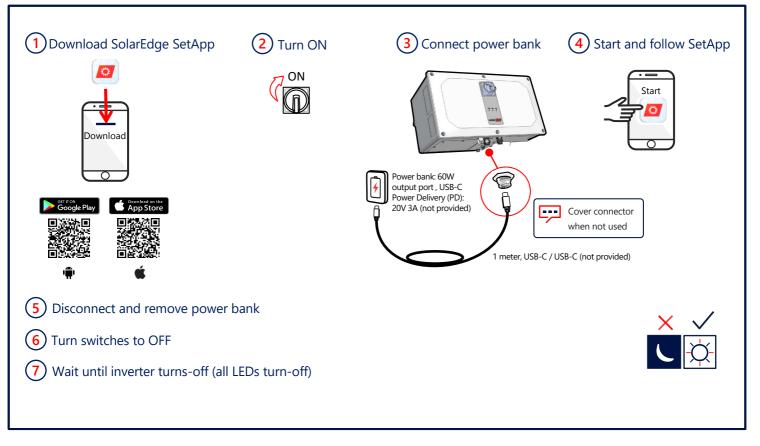


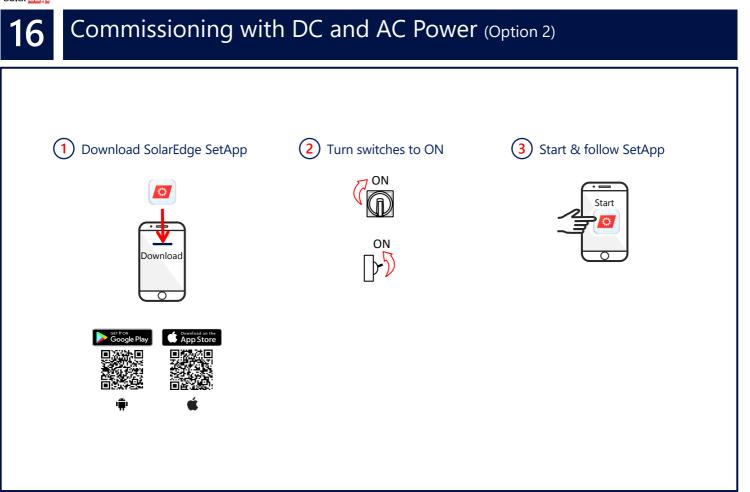




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Pre-commissioning when AC Power is Not Connected (Option 1)





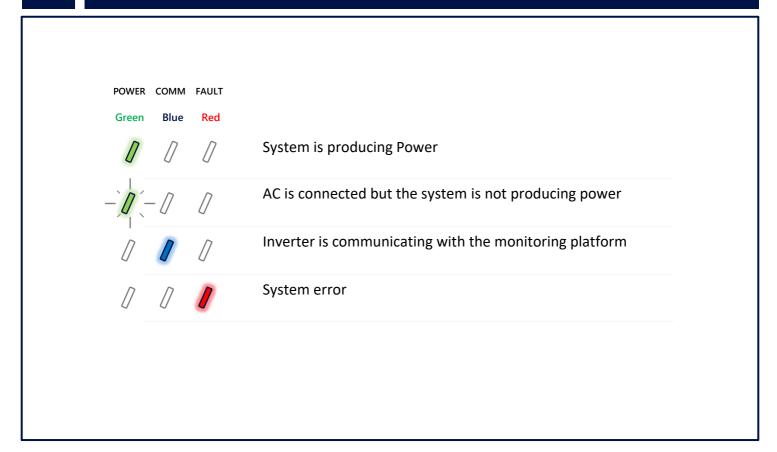
Commissioning the Leader Inverter **17**

solar <mark>,edge</mark> sn 7c17FC-8F	:				
Commissioning					
1 Gountry & Language	>				
2 O Pairing	>				
, Monitoring Communication	>				
3 Site Communication	>+	➡ RS4	485-1 →	Protoco	ol → Sol
Fower Control	> L	→ RS4	S485-1 → Follower Dete		
会 Grid Protection		_			
A Gria Protection	>				
 Grid Protection Device Manager - ZigBee Not Connected 	>		Production	Limit	Inverters
Ф Device Manager - ZigBee Not	>		1.00 MW	Limit 1.00 MW	10/10
Ö Device Manager - ZigBee Not Connected			1.00 MW	Limit 1.00 MW	10/10
Ö Device Manager - ZigBee Not Connected Ø Maintenance Image: Connected C	>		1.00 MW	Limit 1.00 MW Inverter SN 073180000 Voltage 277 Vac f141	10/10
	>	→	1.00 MW Power 100kW P_OK: 141 of	Limit 1.00 MW Inverter SN 07318000C Voltage 277 Vac f 141 Se	10/10 Frequency 60.9 Hz rever Comm. S_OK

le → So	Diaredg	e Lead	er
Left	Center	Right	
SN 07318000D	SN 07318000C	SN 07318000E	
Power	Power	Power	
33.3 kW	33.3 kW	33.3 kW	
Voltage	Voltage	Voltage	
850 Vdc	850 Vdc	850 Vdc	
P_OK	P_OK	P_OK	
47 0f 47	47 0f 47	47 0f 47	
Temperature	Temperature	Temperature	
156 F	156 F	156 F	
Fan	Fan	Fan	
OK	OK	OK	
Isolation	Isolation	Isolation	
100 kOhm	100 kOhm	100 kOhm	

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3 LED Indications



Notes

Notes



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

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