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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





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Connecting the PV Array



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Maintaining Clearance



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Marking & Drilling Holes



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Mounting the Units





6

Connecting Cables



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Removing Covers



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Connecting PV Strings via Single DC Input



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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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13

Connecting Cellular Communication (Optional)







6

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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