Three Phase Inverter
with SetApp Configuration
PN: SEXXK-AUXXXX
Quick Installation Guide

For Australia
Version 1.0
## Legend

<table>
<thead>
<tr>
<th><strong>NOTE</strong></th>
<th><strong>CAUTION!</strong></th>
<th><strong>WARNING!</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="" alt="Note Symbol" /> This symbol denotes information intended to assist the user in making optimum use of the product.</td>
<td><img src="" alt="Caution Symbol" /> 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.</td>
<td><img src="" alt="Warning Symbol" /> 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.</td>
</tr>
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<tr>
<th><strong>Do not cut cable connectors</strong></th>
<th><strong>Inverter ON/OFF Switch: 0=OFF; 1=ON; P=Pairing/Program</strong></th>
<th><strong>This symbol appears at grounding points on the SolarEdge manuals and equipment.</strong></th>
</tr>
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<tr>
<td><strong>Turn ON/OFF the main circuit board AC switch, and wait 5 minutes</strong></td>
<td><strong>Safety Switch (on optional DC Safety Unit)</strong></td>
<td><strong>Fasten screws in described order</strong></td>
</tr>
</tbody>
</table>
| **1. Turn ON/OFF/P Switch to OFF (0)**  
2. Turn Safety Switch to OFF  
3. Open cover screws** | **Torque value** | **9.0 N*m / 6.6 ft.*lb**  
**10.3 N*m / 7.6 ft.*lb (Plastic)** |

**LEDs**
Step 1

Installing the Power Optimizers

Verify string design with Designer

M6 (1/4") or M8 (5/16")

stainless steel 9.5 N*m / 7 lb*ft

10 mm / 0.4"
25 mm / 1" (P860, M1600)

12.7 mm / 0.5"

10 mm / 0.4"
25 mm / 1" (P860, M1600)

10 mm / 0.4"
25 mm / 1" (P860, M1600)

10 mm / 0.4"
25 mm / 1" (P860, M1600)
Step 1

Complete site registration and physical layout in the monitoring platform

Scan stickers using Mapper
Step 1

Input from module

Output to string

2:1 series connection

Use a dual input optimizer (P800p) for parallel connection of two PVs. Use a branch cable to connect two PVs to a single input optimizer.

Extension cables (4mm²/1.6") between optimizers are allowed between rows and around obstacles.
Check string polarity and measure each string’s voltage to verify $1 \pm 0.1V$ per optimizer.

Example: 8 optimizers = ~8V
20 cm / 8” where annual average high temperature is above 25°C / 77°F
Use 3/4” or 1” Unibit drill to create holes for AC and DC conduits.
Step 3: Connecting the PV Array

1. For inverters up to SE25K ≤ 300m
2. For SE25K and above: ≤ 700m

**Solid, stranded or fine stranded conductor.** When using a stranded copper wire, use of ferrule is at the installer discretion. Bi-metal ferrule must be used for aluminum conductor.

6-35mm²
25 mm

To add strings in parallel, use external combiner box

Combiner Box

PV Solar Arrays

For inverters up to SE25K ≤ 300m (For SE25K and above: ≤ 700m)
Step 4: Connecting to the AC Grid

1. 4 - 16 mm²
2. 10 - 11 mm²

When using a stranded wire, use of ferrule is at the installer discretion.

- OFF
- Connect PE first

Rated currents: $I_{	ext{in}}$, $I_{	ext{thw}}$, $I_{	ext{thw solar}}$ at 40°C and $I_{	ext{thw solar}}$ at 60°C shade ambient air temperature is 55A.
**Step 5**

**Setting up Communication**

**Built-in:**
1. Ethernet (see page 11)
2. RS485 (see page 11)

<table>
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<tr>
<th>Optional</th>
<th>EN</th>
<th>FR</th>
<th>NL</th>
<th>IT</th>
<th>DE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wi-Fi (Requires antenna)</td>
<td>Wi-Fi (L’antenne est nécessaire)</td>
<td>Wi-Fi (Antenne is vereist)</td>
<td>Wi-Fi (È necessaria l’antenna)</td>
<td>Wi-Fi (Antenne wird benötigt)</td>
</tr>
</tbody>
</table>
Creating Ethernet (LAN) Connection

Step 6

1. OFF
2. OFF
3. 5.5 N*m / 4 ft.*lb
4. LAN Router
The inverter connection does not support RX/TX polarity change. Supporting crossover Ethernet cables depends on the switch capabilities.
Creating RS485 Bus Connection

Min. 3-wire shielded twisted pair (a 4-wire cable may be used). Wire cross-section: 0.2-1 mm²

< 1km /3300 ft.
Move SW1 switch to ON (up) to terminate first and last inverters on RS485 bus.
First time SetApp Installation

1. Open SetApp and follow the instructions
2. Log-in with your monitoring Username and password
**Step 9**

Activating

1. Scan inverter QR code; for RS485 bus, scan master first

2. Follow the SetApp instructions

3. SetApp creates a Wi-Fi connection with the inverter
Step 10: Commissioning

1. Set Country and Language
2. Set communication to the monitoring platform and to the other inverters
3. Set all other parameters
4. From the Commissioning menu, select Pairing to pair the optimizers with the inverter
Step 11

Viewing System Status

SetApp Status screen

- **Status**
  - **Inverter**
    - SN: 07318000C
  - **Power**
    - XX kW
  - **Voltage**
    - XXX Vac
  - **Frequency**
    - XX Hz
  - **Optimizers Connected**
    - P_OK 30 of 30
  - **Communication**
    - S_OK Ethernet
  - **Status**
    - Production
    - Switch: ON
  - **Cos Phi**
    - 1.00
  - **Limit**
    - No Limit
  - **Country**
    - Australia
  - **Voltage**
    - XXX Vdc
  - **Temperature**
    - XX°F
  - **Fan**
    - OK

Monitoring platform

- **System Production**: 1.32 MWh
- **Efficiency**: 91%
- **Consumption**: 431.12 kWh
- **Self-Consumption**: 431.12 kWh
- **Export**: 9.62 MWh

Main LEDs Indications

- Green
- Yellow
- Red