Three Phase Inverter
with SetApp Configuration

Quick Installation Guide

For Australia
Version 1.0

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.

Torque value

Do not cut cable connectors

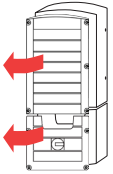
Inverter ON/OFF Switch: 0=OFF; 1=ON; P=Pairing/Program

Turn ON/OFF the main circuit board AC switch, and wait 5 minutes

Safety Switch (on optional DC Safety Unit)

LEDs

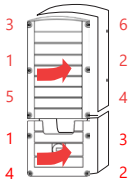
1. Turn ON/OFF/P Switch to OFF (0)
2. Turn Safety Switch to OFF
3. Open cover screws



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

9.0 N*m / 6.6 ft.*lb
10.3 N*m / 7.6 ft.*lb (Plastic)

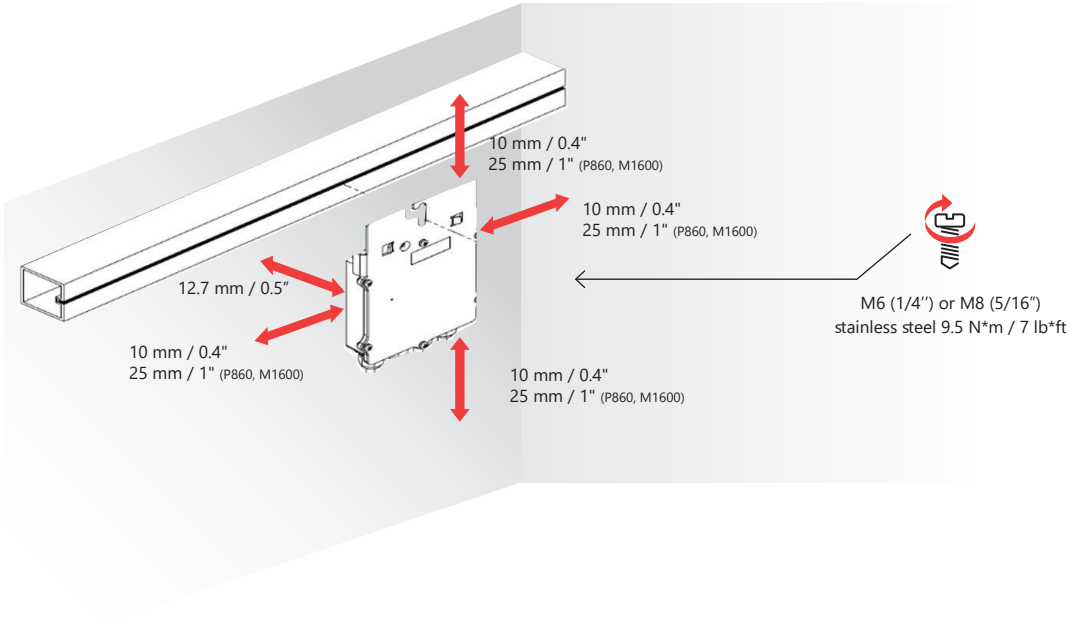
Fasten screws in described order



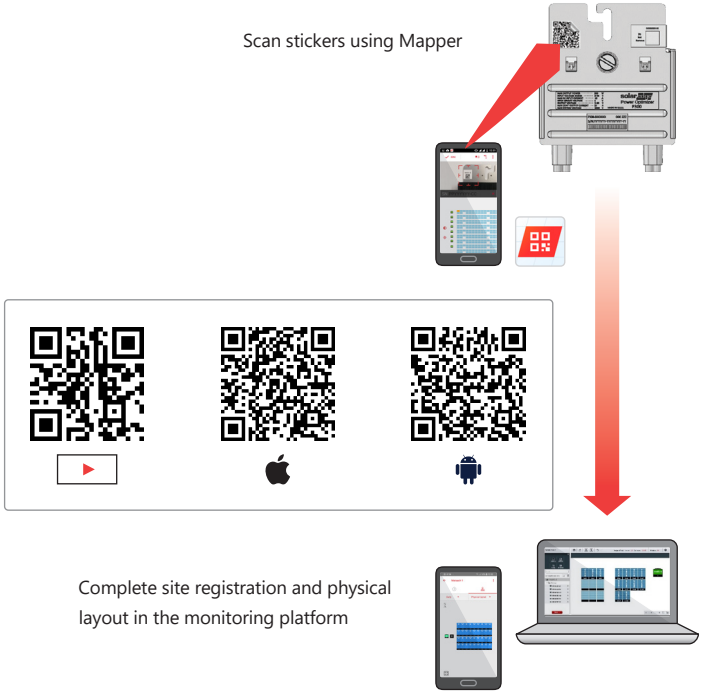
Step 1

Installing the Power Optimizers

Verify string design with Designer



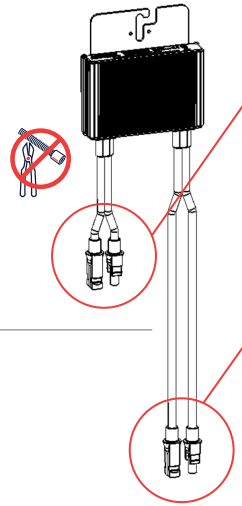
Step 1

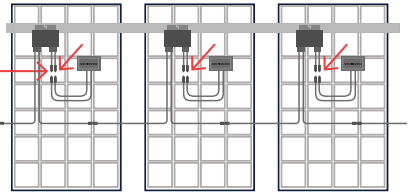

Scan stickers using Mapper
Complete site registration and physical layout in the monitoring platform

Step 1

3 Input from module

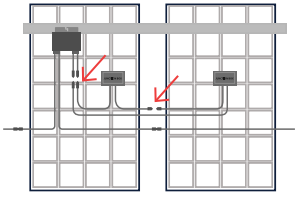
4 Output to string



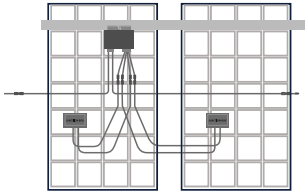


Extension cables (4mm²/1.6"²) between optimizers are allowed between rows and around obstacles

2:1 series connection

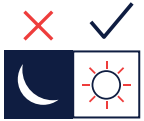


Use a dual input optimizer (P800p) for parallel connection of two PVs. Use a branch cable to connect two PVs to a single input optimizer.

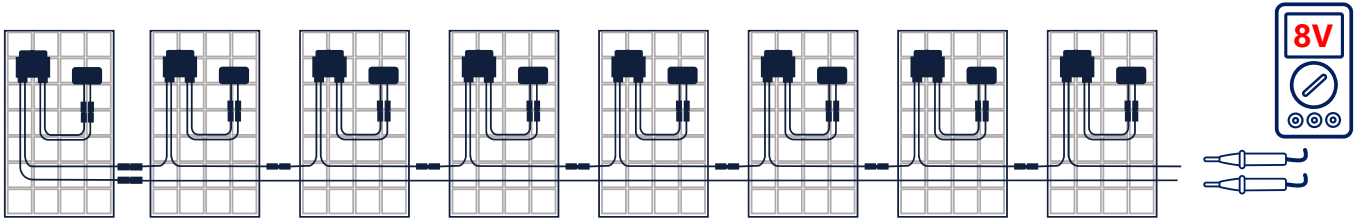


Step 1

Check string polarity and measure each string's voltage to verify 1±0.1V per optimizer



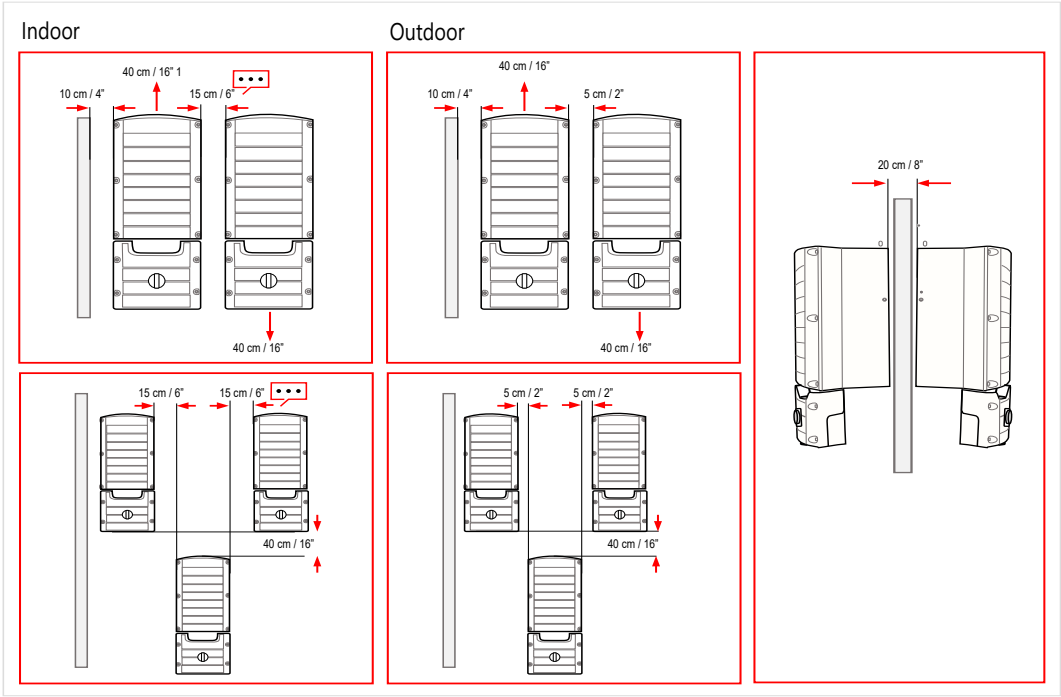
Example: 8 optimizers = ~8V



Step 2

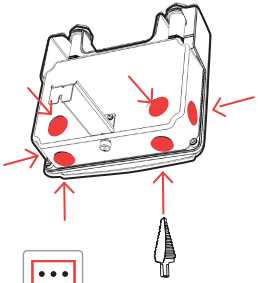
Installing the Inverter

20 cm / 8" where annual average high temperature is above 25˚C / 77˚F

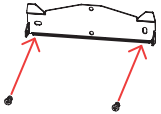


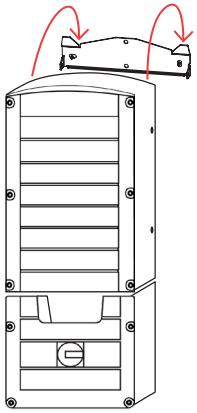
Step 2

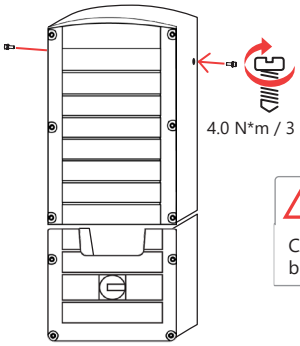
2.1 2.2 2.3 2.4 2.5



Use 3/4" or 1" Unibit drill to create holes for AC and DC conduits

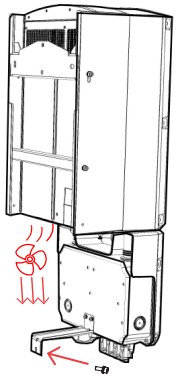






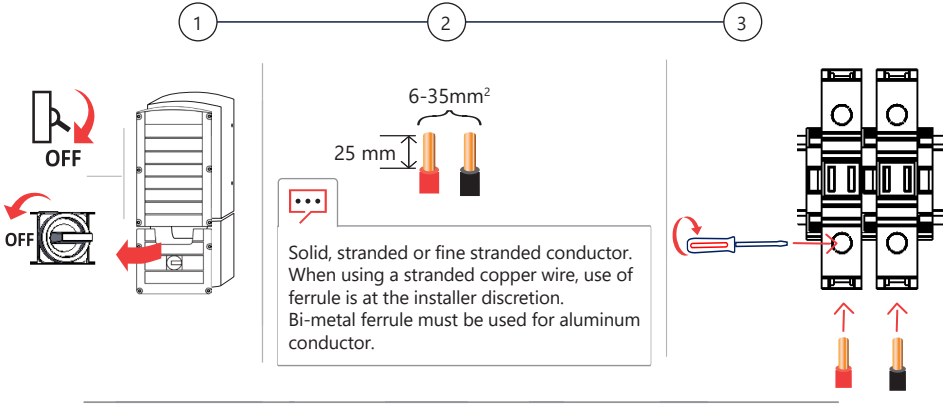
4.0 N*m / 3 lb.*ft.

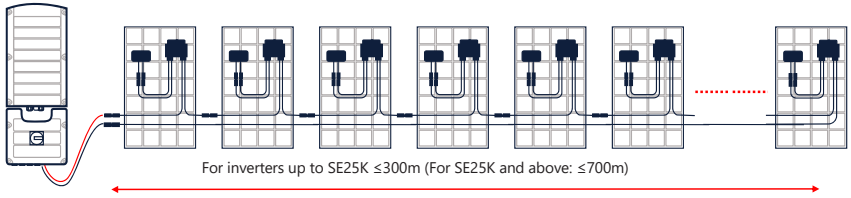
CAUTION! Do not block Airflow

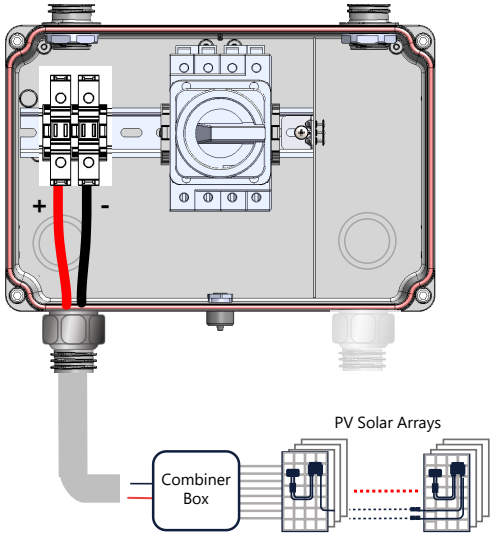


Step 3 Connecting the PV Array

1 2 3





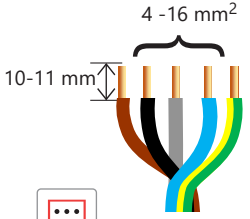


Step 4

Connecting to the AC Grid

1 — 2 — 3

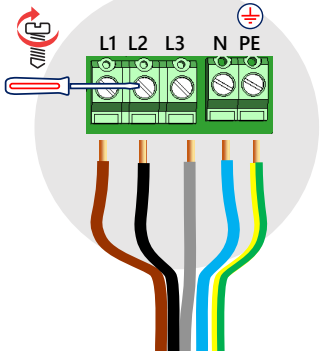
1 — 2 — 3

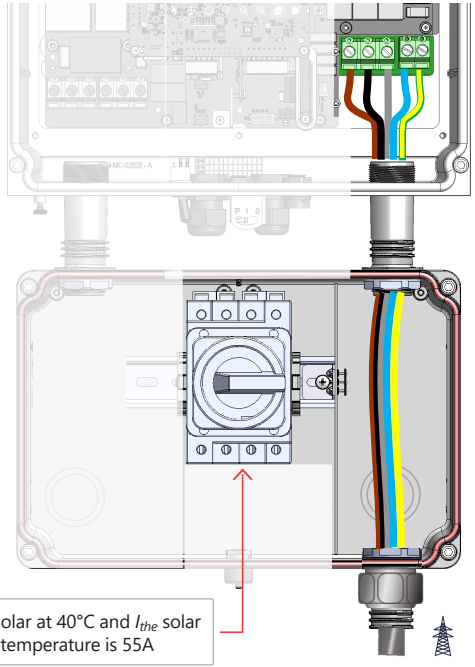


When using a stranded wire, use of ferrule is at the installer discretion

1.2-1.5 N*m

Connect PE first





Rated currents: I_e, I_{the}, I_{the} solar at 40°C and I_{the} solar at 60°C shade ambient air temperature is 55A

Step 5

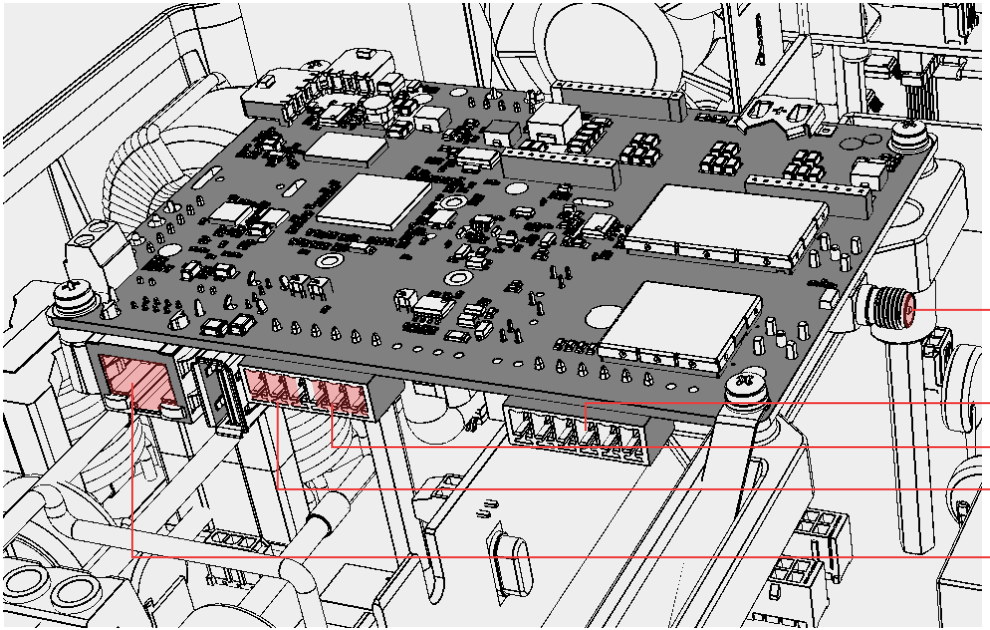
Setting up Communication

Built-in:

1. Ethernet (see page 11)
2. RS485 (see page 11)

Optional		
	EN Wi-Fi (Requires antenna) FR Wi-Fi (L'antenne est nécessaire) NL Wi-Fi (Antenne is vereist) IT Wi-Fi (È necessaria l'antenna) DE Wi-Fi (Antenne wird benötigt)	

Step 5

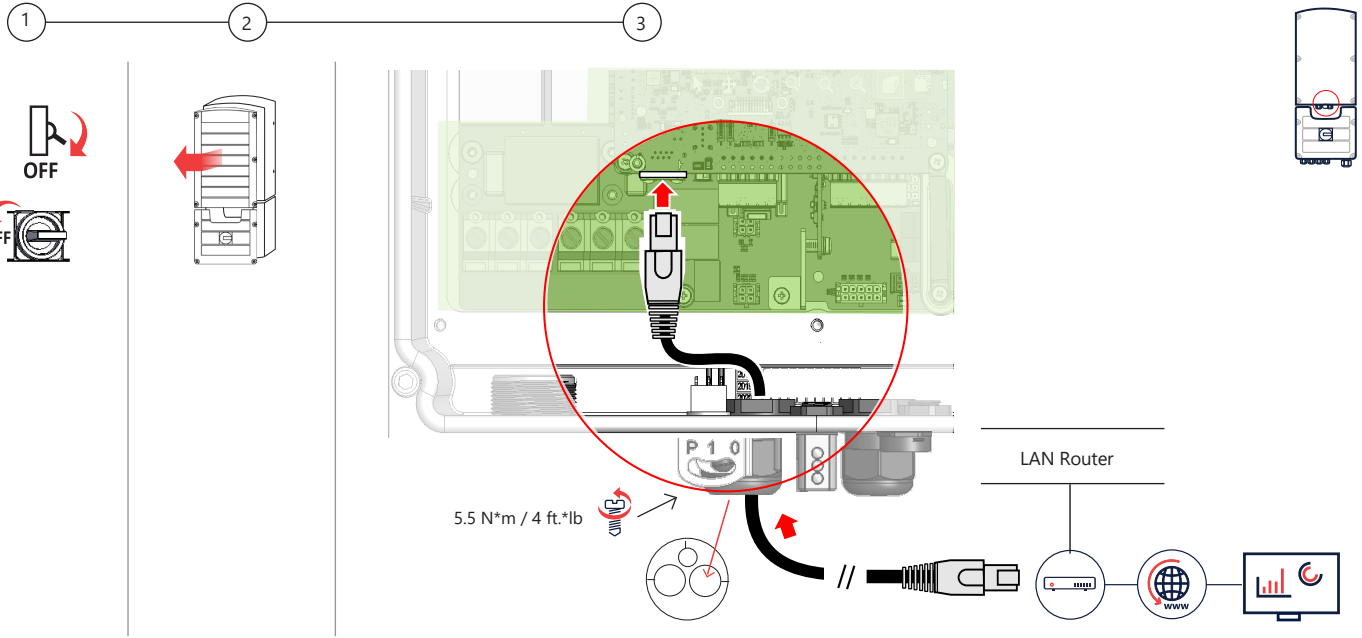


Scan QR for troubleshooting	

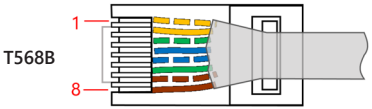
Scan QR for communication options	

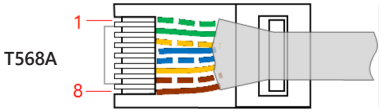
Step 6

Creating Ethernet (LAN) Connection



Step 6





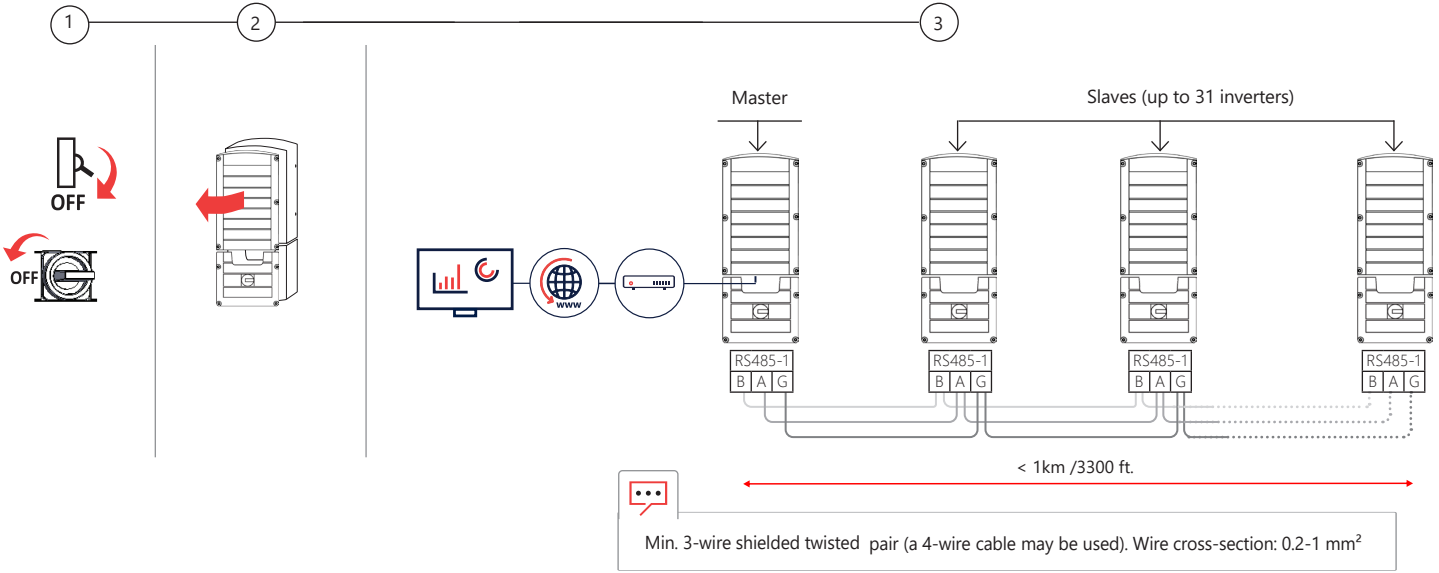
RJ45 Pin #	Wire Color[1]		10Base-T Signal 100Base-TX Signal
	T568B	T568A	
1	White/Orange	White/Green	Transmit+
2	Orange	Green	Transmit-
3	White/Green	White/Orange	Receive+
4	Blue	Blue	Reserved
5	White/Blue	White/Blue	Reserved
6	Green	Orange	Receive-
7	White/Brown	White/Brown	Reserved
8	Brown	Brown	Reserved

[1] The inverter connection does not support RX/TX polarity change.
Supporting crossover Ethernet cables depends on the switch capabilities

Step 7

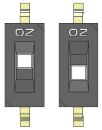
Creating RS485 Bus Connection

1 2 3 4

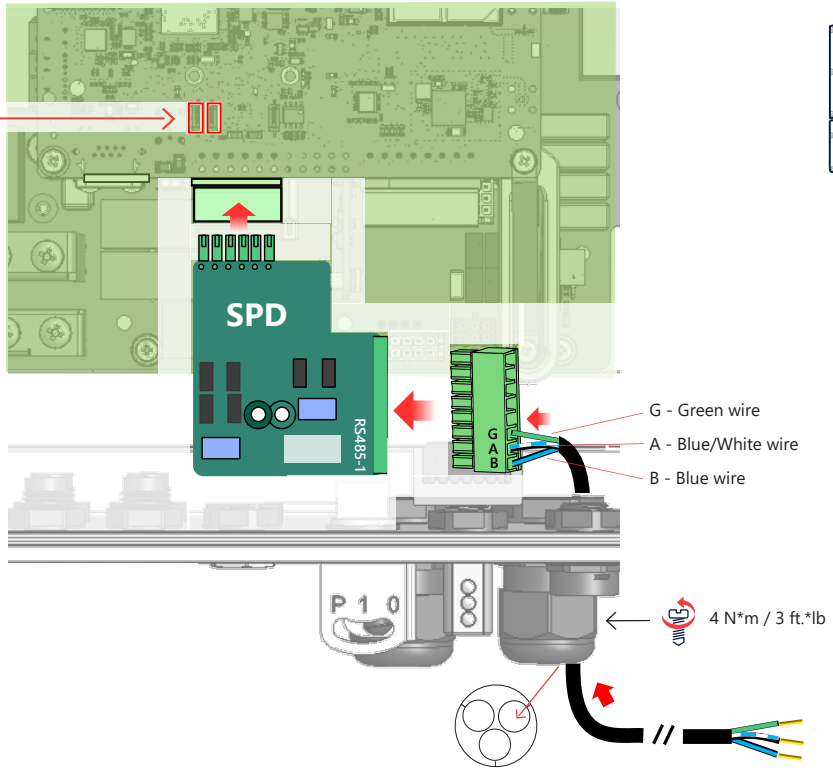


Step 7

SW1



Move SW1 switch to ON (up) to terminate first and last inverters on RS485 bus



Step 8

First time SetApp Installation

1 — 2

1

2

Login:

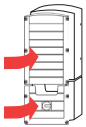
1. Open SetApp and follow the instructions
2. Log-in with your monitoring Username and password

Step 9

Activating

1 2 3

1



2

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

3

Follow the SetApp instructions

SetApp creates a Wi-Fi connection with the inverter

Step 10

Commissioning

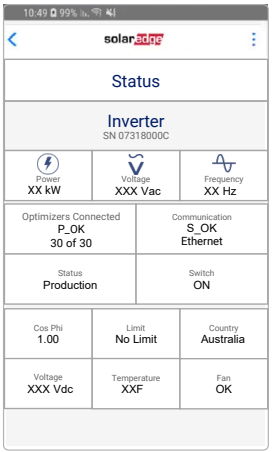
1 2 3 4

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

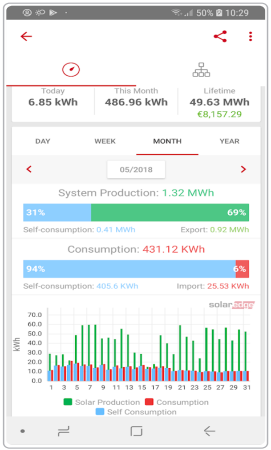
Step 11

Viewing System Status

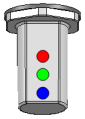
SetApp Status screen



Monitoring platform



Main LEDs Indications



solaredge