



solarbot

by
plentify



Installation manual

Manual version:290824

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Welcome to SolarBot

SolarBot works with inverters to maximise solar energy use in homes, ensuring homeowners always have electricity when they need it. It achieves this with advanced hardware and specially-designed AI.

By combining weather forecasts, load shedding schedules and household demand patterns, SolarBot optimally

manages battery charge and wirelessly controls appliances to take advantage of surplus solar.

This manual will guide you through the installation of SolarBot's hardware – a sophisticated product designed for easy installation.

Manufacturer: Plentify (Pty) Ltd

Model: SB2000

DC input supply: 0.5A 5-12V



Operating temperature:

-30 °C to 85 °C

Communications:

Wi-Fi IEEE 802.11b/g/n

Bluetooth® 5 (LE)

RF 868MHz SRD

Note:

Do not plug any non-Plentify cables into any ports.

SolarBot does not support Ethernet.

Do not attempt to plug in an Ethernet cable.

What you'll need

To ensure efficient installation of SolarBot, you'll need the following tools:



Your smartphone



Phillips screwdriver



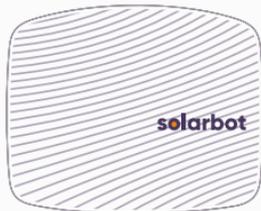
For wall mounting

- Masonry drill
- A 6mm masonry drill bit

What's in the installation kit

This kit contains all the key components needed for a successful installation: *SolarBot hardware, inverter and pass through cables, mounting plates, screws, a cable tie and a starter guide.*

SOLARBOT HARDWARE



CABLES



**1x Inverter
cable**

*DB9 (Sunsynk/Deye)
or RJ45 (SunGrow)*



**1x Pass through
cable**

*DB9 (Sunsynk/Deye)
or RJ45 (SunGrow)*

DONGLE MOUNT



**1x Cable tie
and saddle**

MOUNTING PLATE



**SolarBot
mounting plate**

MOUNTING SCREWS



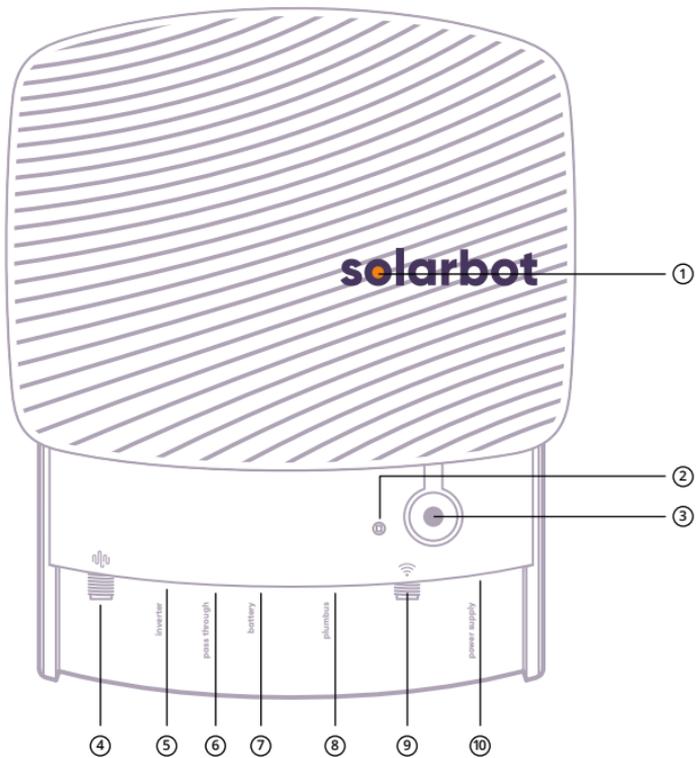
**3 Self-tapping screws
3 x Wall plugs**

HANDOVER MATERIAL



Starter guide with user registration instructions

What's underneath SolarBot



- ① Status light (closed)
- ② Status light (opened)
- ③ Function button
- ④ Heatwave antenna
- ⑤ Inverter port
- ⑥ Pass through port
- ⑦ Battery port
- ⑧ Plumbus
- ⑨ Wi-Fi antenna
- ⑩ Power supply
(not needed for most inverters)

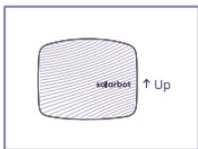
How to install SolarBot

SolarBot installation involves six simple steps:

- ① Mount SolarBot and dongle
- ② Plug in SolarBot
- ③ Connect to Wi-Fi
- ④ Connect the dongle
- ⑤ Validate installation
- ⑥ Handover

1. MOUNT SOLARBOT AND DONGLE

Mounting SolarBot

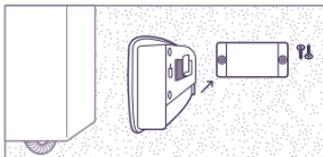


Choose a mounting location alongside inverter

Install SolarBot within a 30cm radius of the bottom of the inverter.

Ensure SolarBot is mounted upright

(with the cables exiting the bottom of the device).

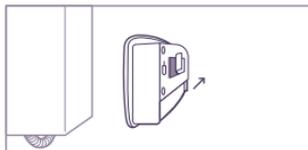


For uneven wall surfaces

First mount the supplied mounting plate to the wall using the 6mm masonry plugs and self-tapping screws.

Then, follow the next step to mount SolarBot on the even surface of the mounting plate.

TIP: *The front of the mounting plate is the side which has countersunk screw holes.*



For even wall surfaces

Make sure the mounting surface is clear of dust, debris and moisture.

Remove the release-paper from the adhesive-tape on the reclosable fastener located on the back of SolarBot. Press SolarBot firmly onto the mounting plate or smooth wall surface.

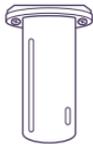
Mounting the dongle

Types of dongles

SolarMan



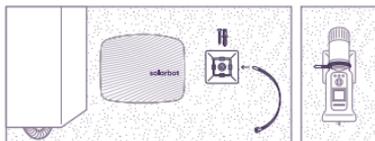
Sunsynk



Solar Assistant



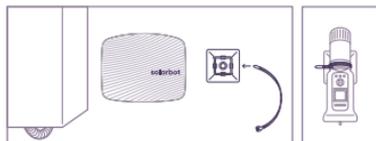
Sungrow



For uneven wall surfaces

Mount the saddle to the wall using the 6mm masonry plug and screw.

Mount the dongle securely with the cable tie to the saddle, ensuring that the cable port faces downwards.



For even wall surfaces

Mount the saddle to the wall using the adhesive backing of the saddle.

Mount the dongle securely with the cable tie to the saddle, ensuring that the cable port faces downwards.

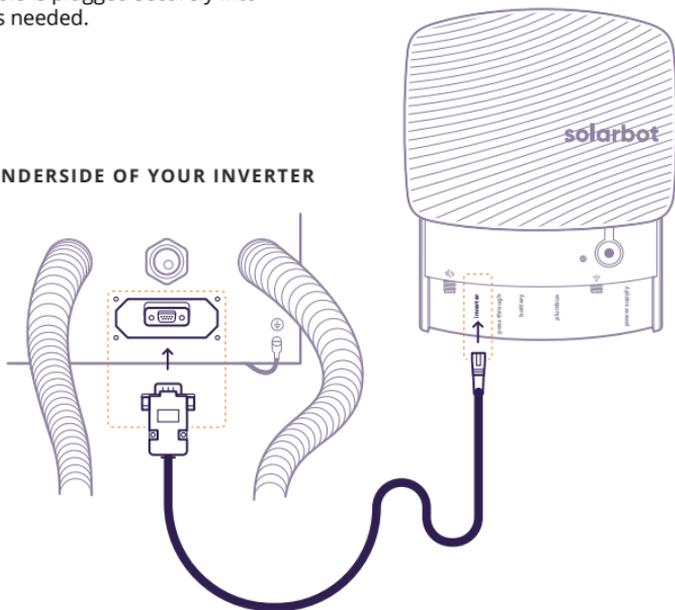
2. PLUG IN SOLARBOT

Plug the cable labelled **Inverter** into the port also labelled **Inverter** on the SolarBot.

Then plug the other end of the cable into the matching comms port of the inverter.

Ensure the cable is plugged securely into the inverter as needed.

UNDERSIDE OF YOUR INVERTER



3. CONNECT TO WI-FI



Once SolarBot is plugged in, a new Wi-Fi access point will be activated that you can connect to using a mobile phone.

Here's how to connect:

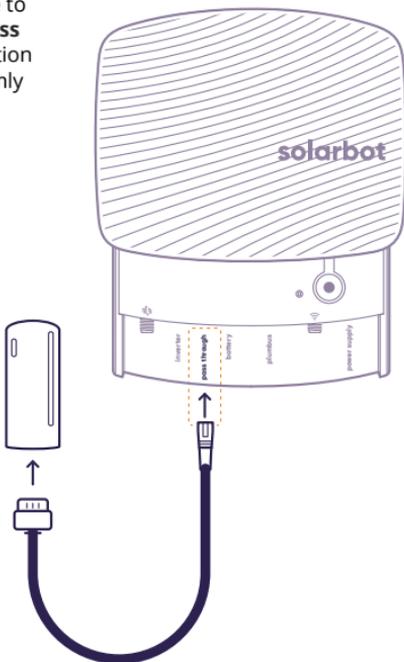
- 1 Ask the resident to open their Wi-Fi settings and connect to **SolarBot by Plentify**.
- 2 Once connected, a new browser window will open. Please note that it may take up to 30 seconds for the window to appear.
- 3 The resident will need to enter their **Network Name and Wi-Fi Password** and press **Connect**.
- 4 Wait 30 seconds, SolarBot will continue to show a **blue light** while connecting to the Wi-Fi network.
- 5 **NB! The resident needs to connect SolarBot to Wi-Fi for it to work.** If they are struggling, retry these steps on your mobile phone or consult troubleshooting at the end of this guide.



NOTE: *If the purple light does not switch on, repeat the steps starting from the beginning, ensuring that the Wi-Fi details are entered accurately.*

4. CONNECT THE DONGLE

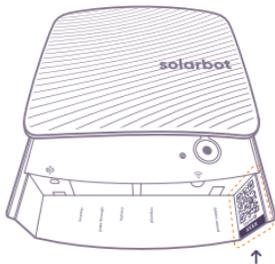
Using the cable labelled **Pass through**, connect the dongle to the SolarBot port labelled **Pass through**. Ensure the connection is secure and the cable is firmly in place.



5. VALIDATE INSTALLATION

- 1 Register at **plentify.io/installers** and access the Installer App at **install.plentify.io**
- 2 Select **Install a SolarBot**. Enter the following system details on the provided form, then submit the form.

(A) SolarBot ID

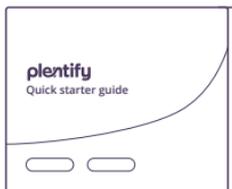


This ID can be found on the inside corner of your SolarBot, below the QR code.

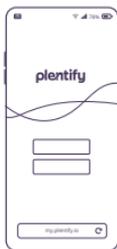
- (B) Custom system name
- (C) Battery details
- (D) Solar panel details
- (E) Customer details

6. HANDOVER

- ① Give the user the supplied starter guide which contains instructions for them to access the Plentify app, activate their SolarBot and start enjoying the full SolarBot experience.



- ② Help the user register on the Plentify app at **my.plentify.io**.



Troubleshooting

Email Plentify on support@plentify.io with any questions regarding installation.



Verify the inverter settings

The default address for Sunsynk and Deye inverters is already set to 01, but it's important to double-check. Make sure the inverter address is set to 01.

| | |
|--|--|
| <p>Sunsynk On the Inverter screen:</p> <p> Select Settings</p> | <p>Deye On the Inverter screen:</p> <p> Select Settings, then select Advanced function</p> |
| <p> Select Advanced Advanced</p> | <p> Scroll down using the down arrow</p> |
| <p> Multi-Inverter</p> <p>Select the Multi-Inverter tab and verify the Modbus SN is set to 01, if not, select the field and enter 01</p> | <p>Modbus SN Verify the Modbus SN is set to 01. If not, select the field and enter 01</p> <p></p> |



Wi-Fi Connection

If you are struggling to connect to Wi-Fi, you may need to try to connect to the Wi-Fi with a laptop.

Here's how to connect:

- ① Open the Wi-Fi settings on a laptop and connect to **SolarBot by Plentify**.
- ② Once connected, a new browser window will open. Please note that it may take up to 30 seconds for the window to appear.
- ③ Enter the user's **Network Name** and **Wi-Fi Password** and press **Connect**.
- ④ Wait 30 seconds, SolarBot will continue to show a blue light while connecting to the Wi-Fi network.

