

Further Support

To find out more about how Solar iBoost+ works visit www.solariboost.co.uk

Technical support for qualified installers and electricians +44 (0)1536 447866

Limited Warranty

The Marlec Engineering Co. Ltd warranty provides free replacement cover for all defects in parts and workmanship for 24 months from the date of purchase. Marlec Engineering Co. Ltd obligation in this respect is limited to replacing parts which have been promptly reported to the seller and are in the seller's opinion defective and are so found by Marlec Engineering Co. Ltd upon inspection. A valid proof of purchase is required if making a warranty claim.

Defective parts must be returned by prepaid post and accompanied by a Returns Authorisation available in advance from Marlec Engineering Company Limited, Rutland House, Trevithick Road, Corby, Northamptonshire. NN17 5XY, England or to an authorised agent.

This warranty is void in the event of improper installation, unauthorised service, use of unauthorised components, owner neglect, misuse or natural disasters including lightning strike. This warranty does not extend to ancillary equipment not supplied by the manufacturer. No responsibility is assumed for incidental damage. No responsibility is assumed for consequential damage.

Disclaimer

Marlec Engineering Co. Ltd has a policy of continuous improvement in product quality and design. The company, therefore reserves the right to change the specification of its models at any time. All items in this guide are for illustration purposes only and may not apply to your particular situation.

Disposal of Old Electrical Appliances



For electrical products sold within the European Community.

At the end of this products useful life, it should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice in your local area.

Marlec Engineering Co. Ltd : NN17 5XY

iBOOST+ BUDDY



Operating Instructions

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Technical Specifications

DC Input Voltage	5Vdc 0.2A USB-C
Operating Temperature Range:	0 to 40°C
Operating Radio Frequency	868.3 MHz
Radio Range	1 to 30m indoors (dependant on construction and local conditions)
Approvals:	EN 62368-1, EN 301 489-3, EN 300 220
Dimensions:	115 x 66 x 23 mm (excluding stand)

Programming

The programming function allows:

- Setting the date and time of the clock for the Solar iBoost+
- Programming the price of your electricity supply to provide a calculation of instant savings.
- Setting the backlight operation.

The *Buddy* is programmed using push buttons **A** and **B**. To programme:

1. Press and hold button **A** for 3 seconds. The first item in the sequence below is shown.
2. The first digit becomes active and flashes. Press button **B**, each press adds 1 to the value until the digit required is reached.
3. Press button **A** once to confirm and move on. Repeat 2, press **A** to confirm and move on.

Set Tariff PPU
00.00

To allow the *Buddy* to calculate instant savings, the cost of your energy supply must be programmed. Enter the price of daytime energy as provided on your utility bill. The price is entered as pence per unit or pence per kWh.

Set Time
10:15 01/07/23




Sets the internal clock of the Solar iBoost+. Set the current date and time in 24hr mode.

Set Backlight
1

Sets the backlight operation. Set value to 1 for always on (default) or 0 to time out 1 minute after any button press.

Traffic Light Energy System

A simple colour indicator illuminated from the bottom of the *Buddy* informs you of the status of your energy supply, whether exporting due to excess generation, importing from the grid or around neutral.

-  The indicator glows green when more than 300W of generation is being exported. Appliances may be switched on to make use of this energy. The eco-gauge shows how much energy is available.
-  The indicator glows red when importing more than 300W from the grid
-  The indicator glows amber when the overall household consumption is around neutral. When the Solar iBoost+ is operating, available generation will be diverted to the immersion heater usually resulting in a neutral household consumption.

Remote Boost

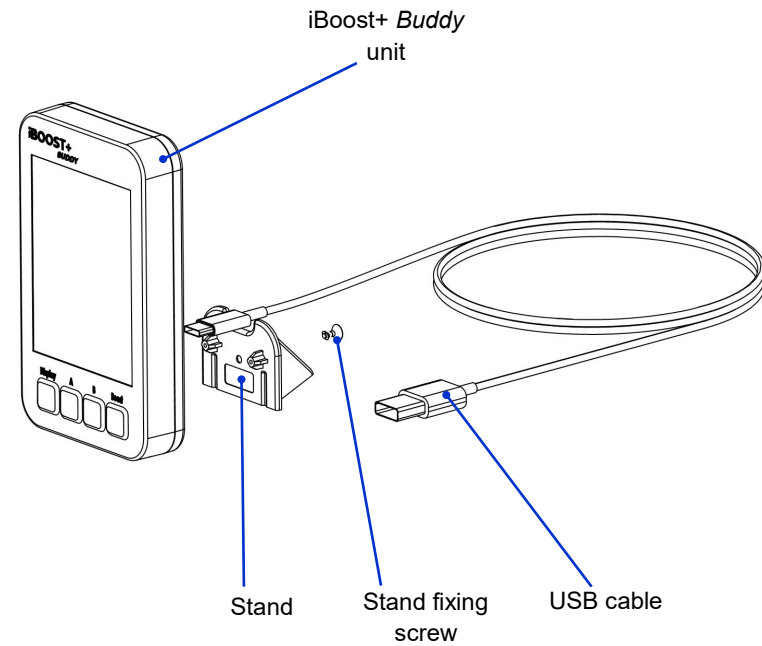
The *Buddy* can remotely control the manual Boost of your Solar iBoost+. During manual boost full power is switched to the immersion heater for the period of time selected on the *Buddy*.

1. Press the **Boost** button, each press of the **Boost** button adds 15 minutes to the boost time up to maximum of 2 hours. The amount of time remaining is shown on the display.
2. To cancel the boost simply press the **Boost** button repeatedly until 'Manual Boost OFF' is shown.

Note that energy will be imported from the grid if you have insufficient solar generation during a manual boost.

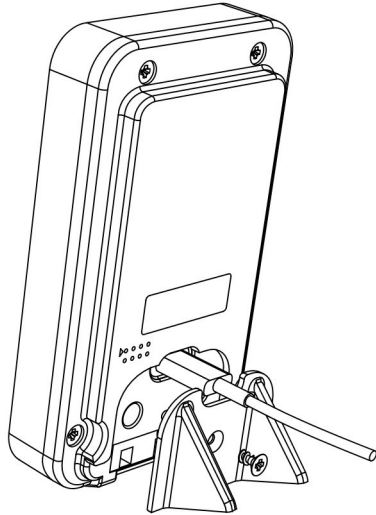
The iBoost+ *Buddy*...

Check you have received:



Assembly

Before use, the *Buddy* must be assembled onto its stand and the USB connector plugged in to the back of the unit.



- Fit the USB cable into the socket in the back of the *Buddy*.
- Push the stand into the *Buddy* with the USB cable routing out through the slot and secure in place using the fixing screw supplied.
- The USB cable supplied requires a standard USB Type A power adapter (not supplied).

Savings History and Timed Boost Season Selection

Historic savings information from your Solar iBoost+ can be viewed on your *Buddy*. Press the **Display** button to cycle through the following displays:

Saved Today
3.66 kWh

Present days energy diverted into the immersion heater.

Saved Yesterday
8.56 kWh

Previous days energy diverted into the immersion heater.

Saved Last 7 days
20.48 kWh

Total energy diverted into the immersion heater in the past 7 days.

Saved Last 28 days
70.97 kWh

Total energy diverted into the immersion heater in the past 28 days.

Saved Amount
390.20 kWh

Total value of energy diverted into the immersion heater since Solar iBoost+ was installed.

Time
10:15 01/07/23

Current time and date in 24hr format.

In Summer Boost
Toggle Press A

Timed Boost Season. This can be changed remotely by pressing button **A**.

Each press of the **A** button will change the setting between Summer, Winter and Boost OFF selections.

Final Display button press

Solar iBoost+ Remote Readings

The *Buddy* provides information remotely from your Solar iBoost+ displaying the status of your water heating.

Heating by Solar
1.52 kWh

Solar iBoost+ is diverting energy to the hot water tank. The instant value of energy being diverted is shown.

Water Heating
OFF

There is no excess generation for the Solar iBoost+ to divert to the hot water tank.

Water Tank
HOT

The Solar iBoost+ is attempting to divert energy to the immersion heater but tank has reached maximum temperature and has switched off. Water heating will resume automatically within 15 minutes after the hot water tank is below its maximum temperature and export energy is available.

Instant Savings

The *Buddy* provides an instant check on the monetary saving your Solar iBoost+ is making.

The *Buddy* calculates the savings in £ per hour from the amount of energy being diverted to the immersion heater and the cost of your electricity supply.

£ 0.24 /hr

To see your savings, simply program the cost of your daytime electricity from your utility bill into the *Buddy* using the programming mode, see page 11.

Pairing to the Solar iBoost+

The *Buddy* must be paired with your Solar iBoost+ to operate. When first powered up the display will state **Not Bound**.

Follow this simple pairing procedure to connect it to the Solar iBoost+, which will typically be installed near your hot water cylinder.

1. Press and hold both **B** and **Boost** buttons on the *Buddy* for 5 seconds, the display will show:

Install Mode
58s Unbound

The *Buddy* will allow 1 minute to pair before timing out. The countdown is shown.

2. During the 60 second countdown move to the Solar iBoost+, press any button to switch on the backlight. Immediately press and hold button B on the Solar iBoost+ for 5 seconds then release.
3. The Solar iBoost+ display will show: **Pairing with Device...**

When the pairing is successful the Solar iBoost+ will show:

Pairing Successful

The *Buddy* will display:

Install Mode
05s Bound

The *Buddy* is fully paired after 5 seconds.

If the pairing fails the *Buddy* display will time out and again show:

Not Bound

Repeat the procedure until the pairing is achieved.

4. Finally, locate the unit in a convenient position.

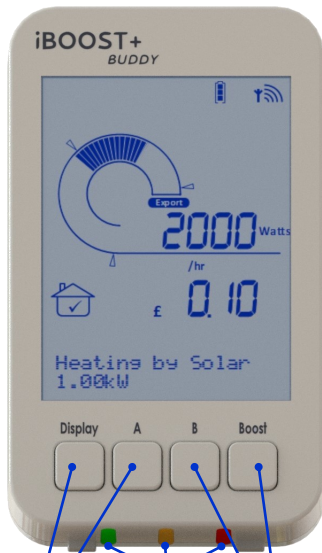
Note this product is only suitable to operate with the Solar iBoost+

Get to know your iBoost+ Buddy

eco-gauge and digital readout tracks your home energy status, whether importing from grid or exporting spare generation

Solar iBoost+ sender battery condition

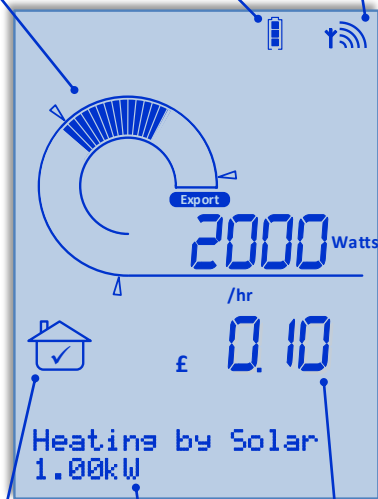
Wireless signal strength to Solar iBoost+



Display and A buttons

Traffic light energy system

B and Boost buttons



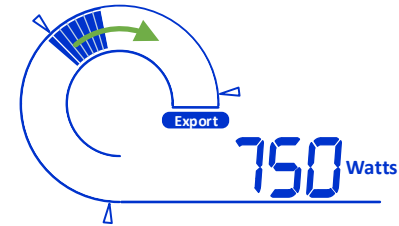
Water heating - Immersion heater supplied when tick is shown

Set your energy cost to see instant savings per hour

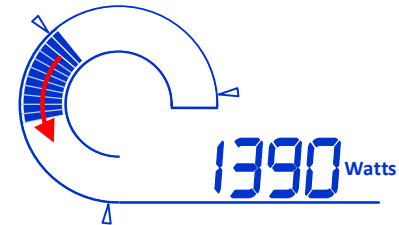
Remote reading of Solar Boost+ instant and historic water heating savings

eco-gauge

The eco-gauge provides a simple indication of the amount of export energy available from your solar PV system or the amount of power you are taking from the grid.



When the gauge moves in the direction of green arrow and the export symbol is shown, your household is generating more power than it is using and therefore exporting some power onto the grid. The value of energy available to use is shown in Watts. The Solar iBoost+ will be diverting energy to your immersion heater unless the tank is hot.



When the gauge moves in the direction of red arrow, your household is taking energy from the grid and the amount of power taken is shown.