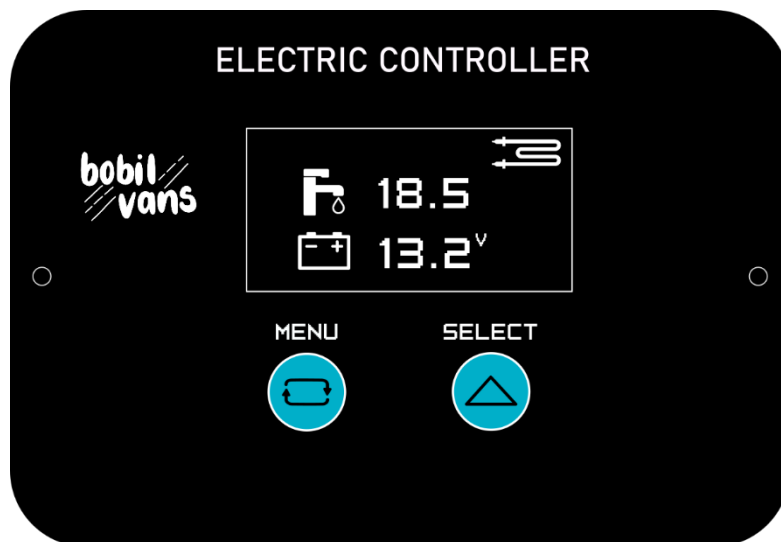




BOBIL VANS ELECTRIC CONTROLLER

USER GUIDE





Important Safety Instructions! Please save these instructions!

This manual contains important safety, installation, and operating instructions for the Bobil Vans Electric Controller.

The manufacturer accepts no liability for damage by:

- Incorrect assembly.
- Damage resulting from mechanical influences or excess voltage.
- Modification or tampering with the unit without expressed permission from the manufacturer.
- Used for purposes other than described in this manual.

General safety

- In the event of product failure, do not attempt to repair the controller. Contact us for support.
- Electrical devices are not toys - keep away from children.
- This product is for 12V circuits only. Make sure your voltage specification is within the input voltage range expressed. Do not connect to a 24v circuit.
- Install and store the product in a dry and cool place.
- Keep electronics away from liquids!
- Do not use the product if physically damaged.
- Over-current protection devices should be on the positive line.

If you have any questions about your installation, please email us at info@bobilvans.co.uk

Thank you for buying our products!

Small businesses like ours only exist because of the support of our customers. We appreciate you purchasing from us, and hope that you have a great experience.

If you have any installation questions or queries then just get in touch, we're here to help.
Contact us at info@bobilvans.co.uk or on the phone at +44 1275 261074

Basic Information

The Bobil Electric Controller gives certain controls over your Bobil Electric water system.

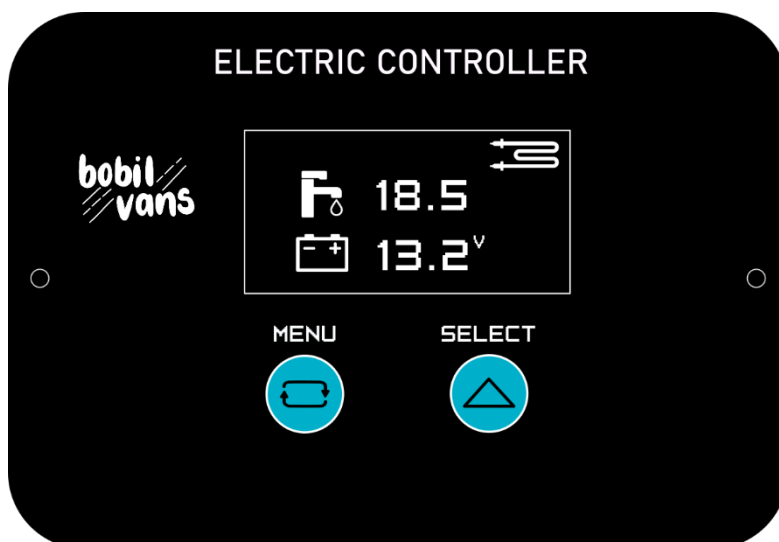
- Displays temperature of the water inside the Bobil Electric Tank.
- Ability to change the max water temperature set point.
- Operation of the 12V element based on the system voltage.
- Programmable settings depending on your battery setup.

These instructions go through each screen of this controller, along with how to change parameters of each setting. They do not show the wiring on the controller, for this please refer to the Bobil Electric instruction manual.

Controller Overview

The controller has two button inputs.

- The left-hand button is a menu scroll button. Press this button to scroll through the different screens.
- The right-hand button is for turning routines on and off, and for adjusting parameters.



Controller Menu Screens

1. Bobil Vans Logo Page
2. Main Status (Water temperature + Battery Voltage)
3. DC Heating Element Control
4. Tank Temperature Target
5. Element ON Voltage
6. Element OFF Voltage
7. Element Settings

Leaving the controller for 60 seconds will default back to the main status screen.

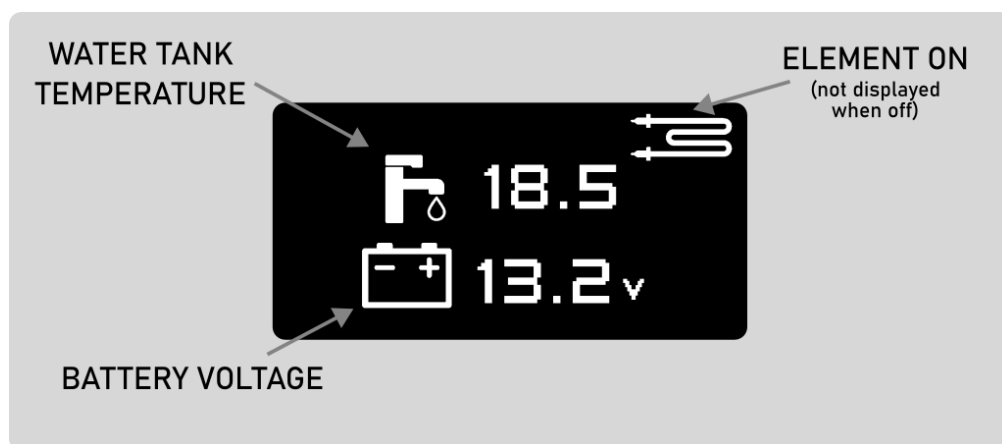
From us, the current presets/default settings are as follows. Please ensure you set up the controller correct for your battery setup BEFORE any power on of your system.

- **DC Element: OFF**
- **Tank Temperature Target: 40**
- **Element ON: 13.4V**
- **Element OFF: 12.8V**
- **Element Setting: Controlled Voltage**

Please see the following pages for a breakdown of each status page and how to change each setting.

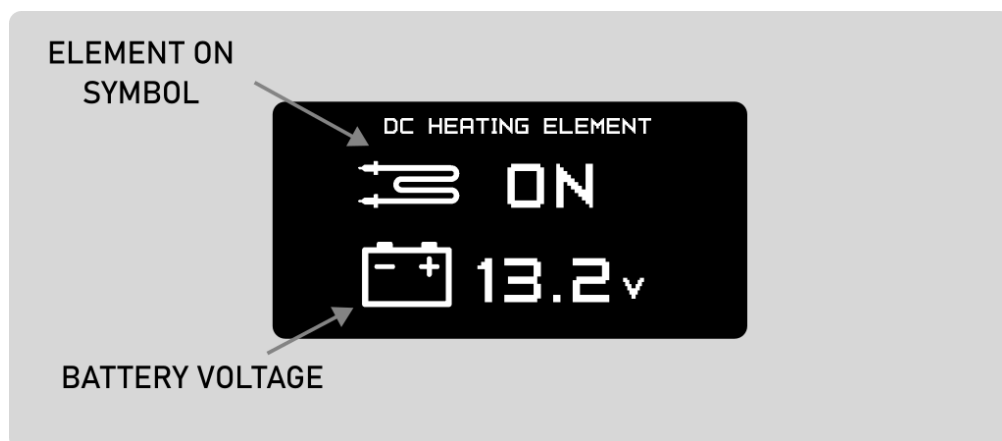


Main Status Screen



- Displays water temperature (in Celsius) and battery voltage.
- Element on symbol will appear if the 12V heating element is on inside the tank.

DC Heating Element Control Screen

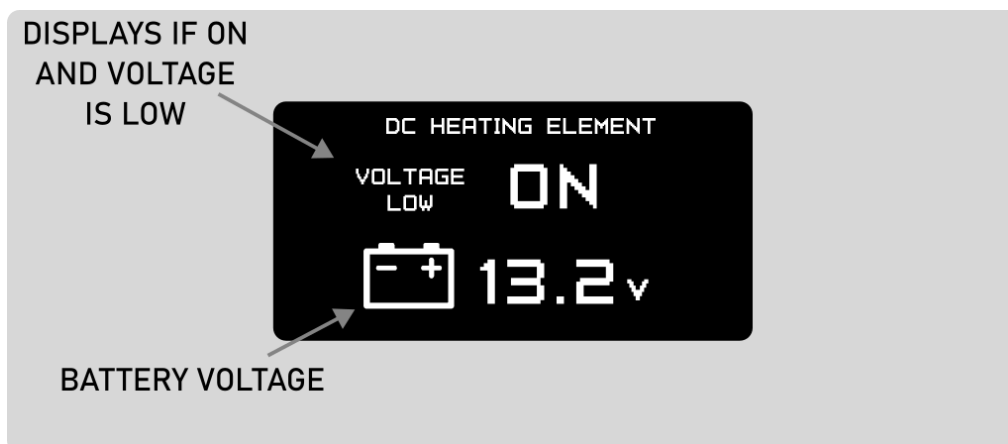


- This controls the 12V heating element.
- By default, this is turned off.
- Use the ON/OFF buttons to enable and disable the heating element.

When turned "ON" this will either physically turn the element on in the tank (if the controller is in uncontrolled mode) or will enable the element to turn on/off based on the battery voltage, both explained in the following pages.



When the element is turned to ON, either the “element on” symbol will appear as above, or if the battery voltage is too low based on the voltage parameters set, a “voltage low” message will display instead.



Tank Temperature Target Screen



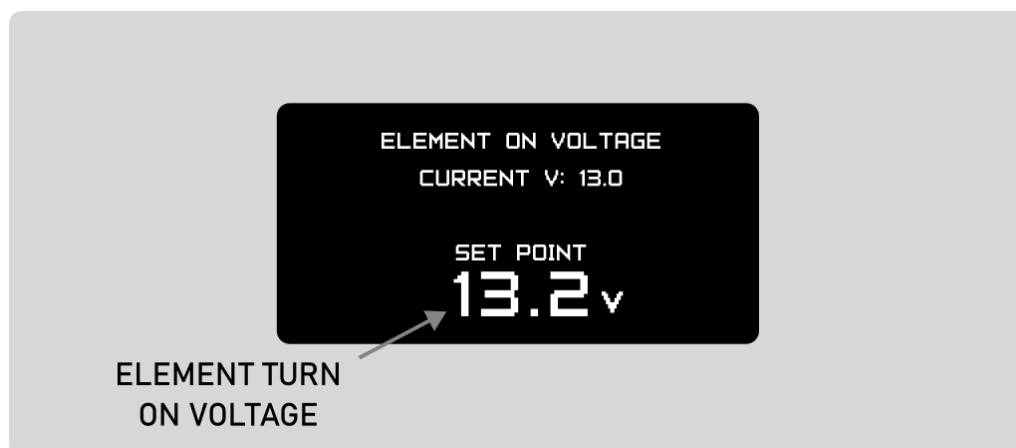
- Displays the current water temperature inside the water tank.
- Shows the current SET POINT (the temperature the 12V element will heat the water to and maintain when on)

To change the SET POINT temperature, press the SELECT button. This will cycle through the preset modes, ranging from 40-75C. Changes are instant.

Please note: If you have a 12V and 230V tank (dual voltage), this set point will only set the temperature for the 12V element. The 230V element is controlled via the knob on the tank.



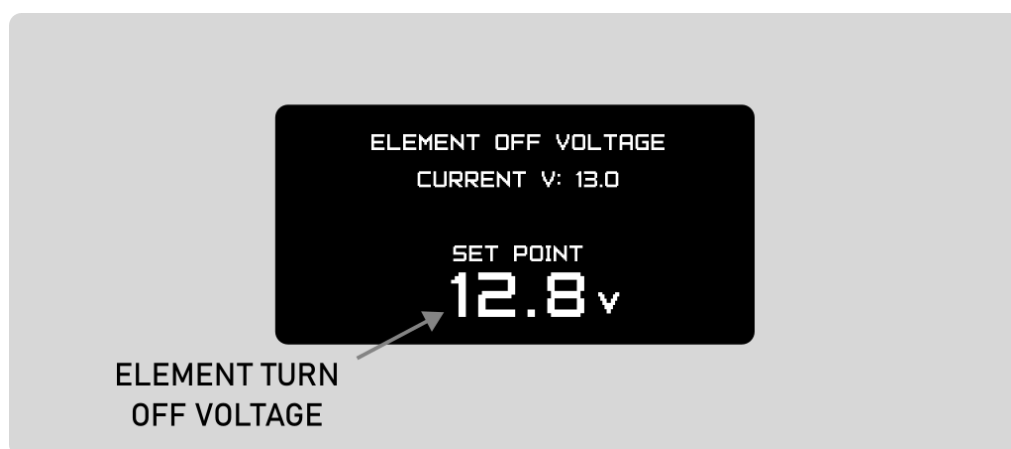
Element On Voltage



- Displays current battery voltage.
- Displays the voltage required to automatically turn the 12V element on.

To change this voltage, press the SELECT button. This will cycle through the preset modes, ranging from 13.2V-14.2V. Changes are instant.

Element Off Voltage



- Displays current battery voltage.
- Displays the voltage required to automatically turn the 12V element off.

To change this voltage, press the SELECT button. This will cycle through the preset modes, ranging from 12.0V-13.0V. Changes are instant.

- Depending on whether you have a lead acid battery, or lithium, and also the brand, this will change what the best settings are for you.
- Battery Voltage may differ from your true battery voltage due to cable voltage drop so bare this in mind when sizing your cable and setting your parameters.



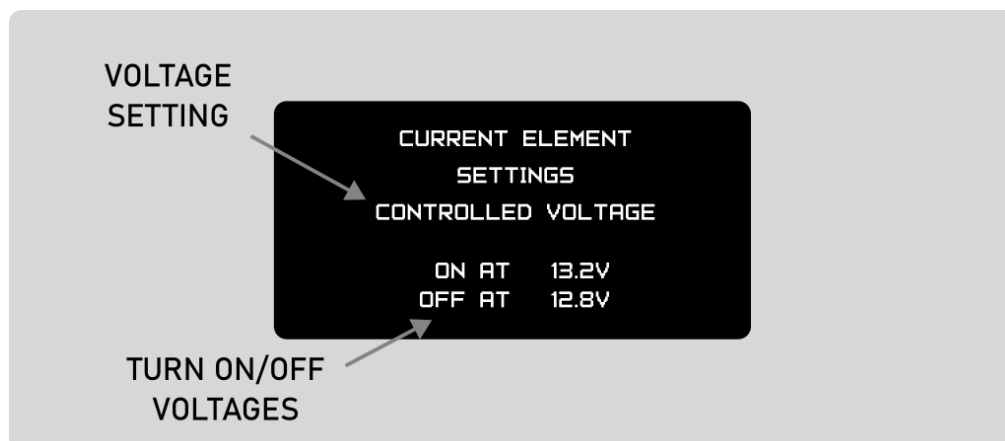
Current Element Settings

- Displays element setting (Controller/Uncontrolled Voltage)
- Displays Voltage ON and OFF settings if on Controlled Voltage.

Switch between “controlled” and “uncontrolled” modes by pressing the SELECT button.

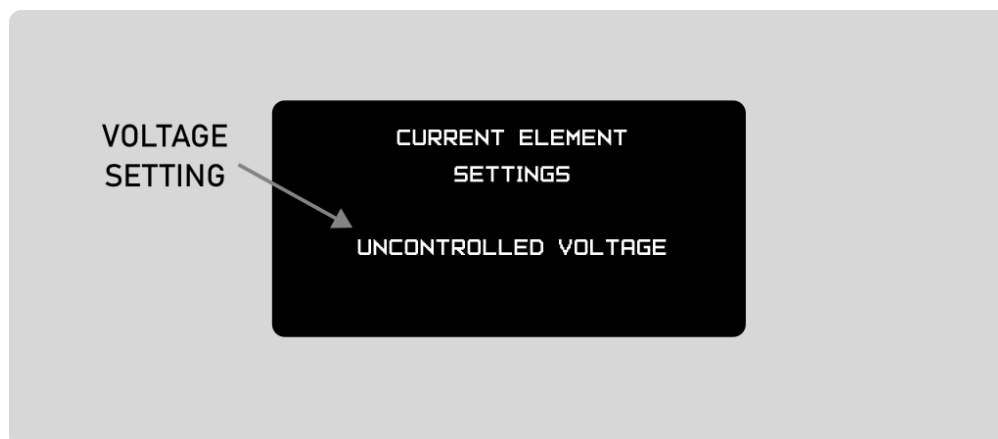
Controlled Voltage

This is the default setting, and means you use the previous 2 screens to determine when your 12V element will automatically turn on and off. We recommend using this setting.



Uncontrolled Voltage

In uncontrolled mode, when you turn the 12V element to ON, the element turns on straight away and remains on until you manually turn it off. **There is no voltage protection.**



This setting is useful for testing purposes but can damage your batteries if left on as it can drain your batteries below the recommended safe voltage. When in “uncontrolled voltage” mode the “element on/off” screens will display “UNCONTROLLED MODE” and no voltage parameters can be set.

Both settings will turn off when the water set temperature is reached and will turn the 12V element on again when the water temperature drops **3C below the temperature set point.**



We would love to know what you think!

Please let us know by leaving a review through the link sent through when you made your purchase, or email us at info@bobilvans.co.uk!

You can also share photos of your installation on the 'Bobil Water Heater Users', Facebook page, we'd love to see them!

www.bobilvans.co.uk

@bobilvans



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