

GIVENERGY DRIVER FOR CRESTRON HOME

Revision: 1.00

Date: 10 October 2023

LICENCING

Please visit <https://shop.ultamation.com/index.php/product/217-givenergy-driver-for-crestron-home> to obtain a licence key for your Crestron processor.

MODULE DESCRIPTION

The driver provides information from your GivEnergy inverter for display in Crestron Home, and provides Crestron Home events that can trigger depending on battery level or upon a power cut.

The driver will be found under:

Drivers > Energy Automation > GivEnergy

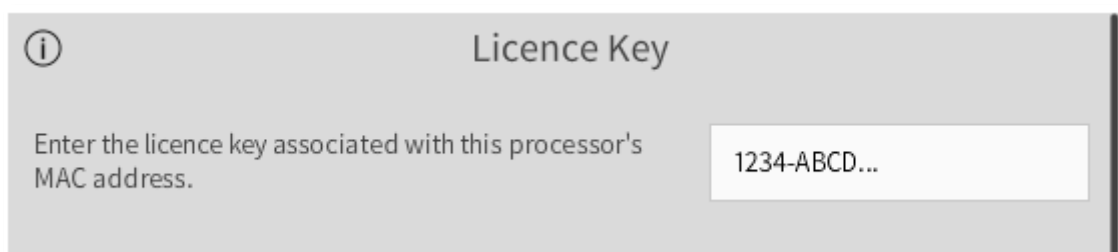
Adding the Driver

Ensure a room is selected, and then click on the '+' against the GivEnergy driver.

You will be asked to provide a descriptive name for the driver – this can be anything you wish. You will also need to specify the following:

- The GivEnergy API key associated with your account
- Upper bounds for generation, consumption and the grid. This is used for the radial gauges on the UI, the upper bound is the value at which the gauge will appear full.
- Battery low threshold. This is the value (as a percentage) at which the system will indicate the battery is low, and trigger associated battery events.

You will also be asked to enter a licence key to ensure that the integration will function after the initial one-hour trial period.

A screenshot of a software interface for entering a licence key. It features a grey header bar with an information icon (i) on the left and the title 'Licence Key' in the center. Below the header, on the left, is the instruction 'Enter the licence key associated with this processor's MAC address.' To the right of this text is a white rectangular input field containing the placeholder text '1234-ABCD...'.

Licence Key

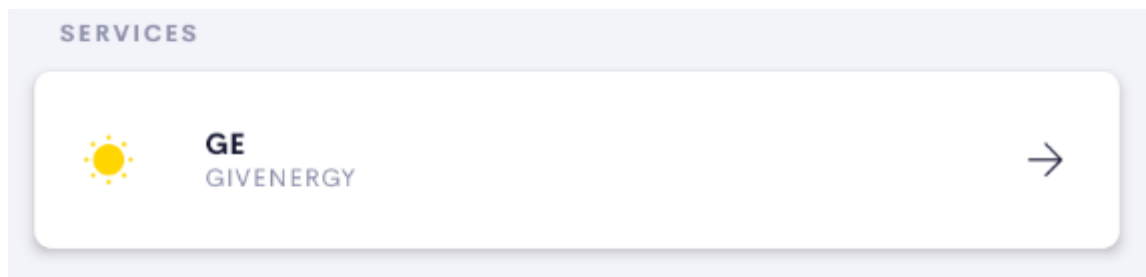
Enter the licence key associated with this processor's MAC address.

1234-ABCD...

The licence key will be emailed to you with your order acknowledgement. The same key can be used for multiple instances in the same system (though different Crestron Home systems will require different licence keys). If you do not enter a valid licence key here, the system will function for 1 hour and then new information will no longer be displayed, and events no longer triggered. The licence key can be entered at any time after initial setup without having to reconfigure each instance.

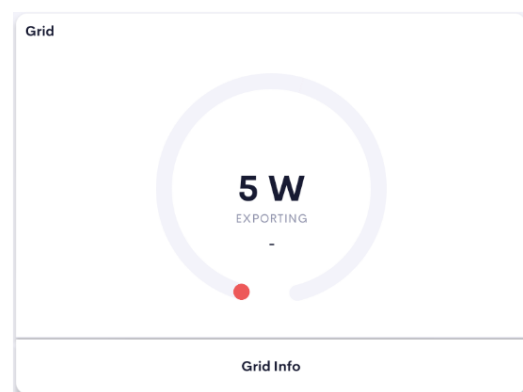
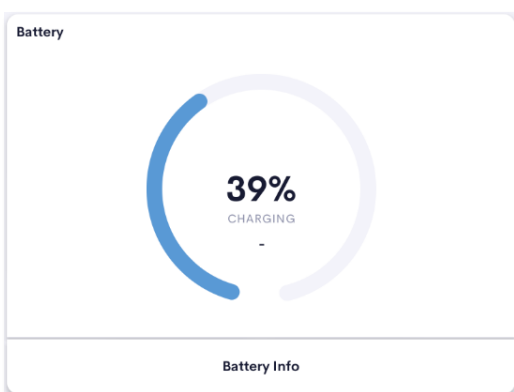
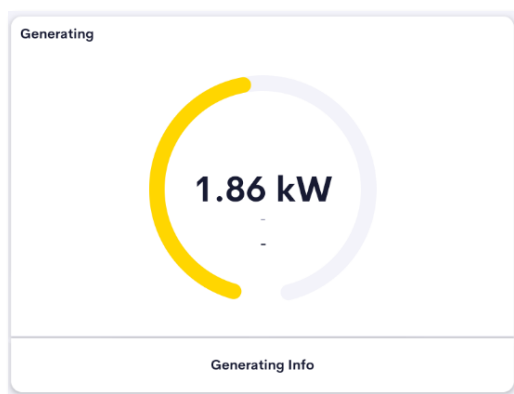
Once added, the driver tile will be visible on the home page in Crestron Home.

User Interface

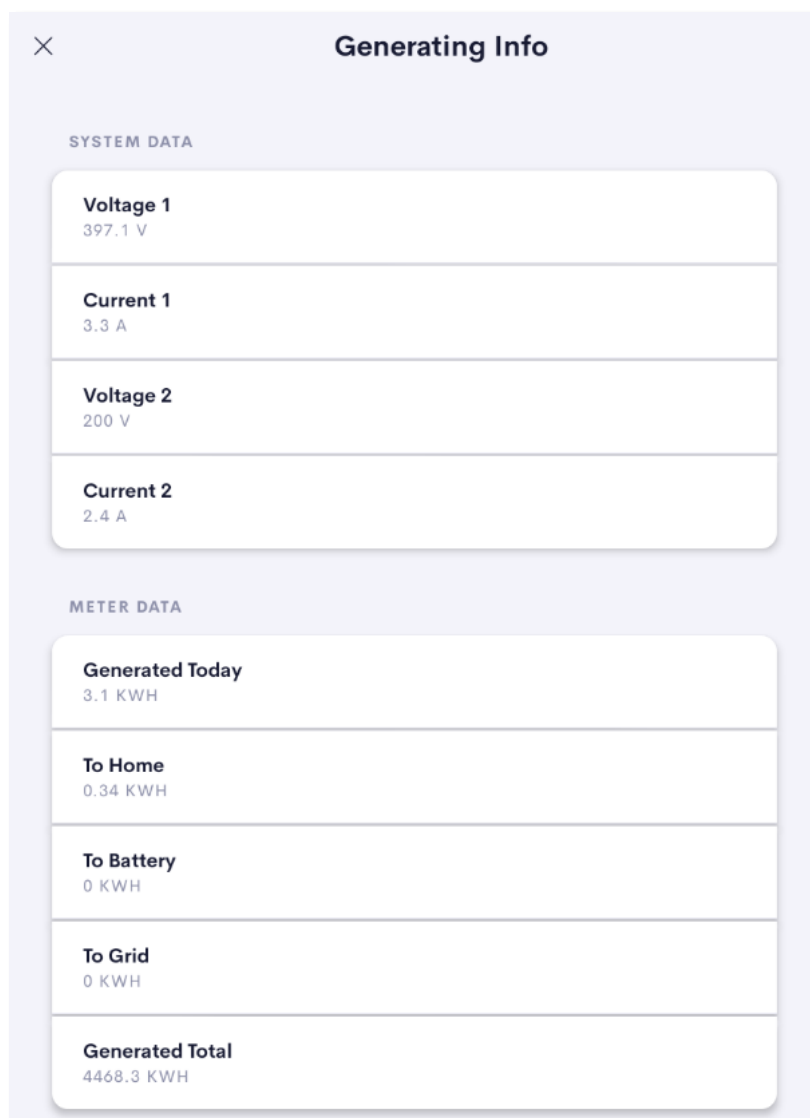


The tile is shown on the home screen in Crestron Home. It will show the name you input when adding the device, and the icon will be a sun icon if the battery is above the input battery threshold, or a low battery icon if below.

You can press this tile to bring up a view of 4 radial gauges: one each for generation, consumption, battery and grid info.



Under each gauge is a button which can be pressed to bring up a page with more data for that gauge. For example, pressing the 'Generating info' button will bring up the following page:



This page shows current system data (voltage and current for each array of solar panels, up to a maximum of 5), as well as meter data. It shows how much has been generated during that day, and how much has been generated total. It also shows energy flow data, i.e. how much energy generated was sent to the home for use, how much was sent to the battery, and how much was exported to the grid.

Similar relevant info is shown related to each gauge on its respective page.

Events

The driver provides 3 events for use in Crestron Home:

- Battery low (battery percentage goes below threshold)
- Battery no longer low (battery percentage rises back above threshold)
- No current from grid (power cut)

You can find these events under the Actions & Events page, by selecting the room you put the GivEnergy driver in, where it will show up. Selecting it will show these 3 events. You can then link these to actions on other devices – for example, you can turn off devices when the battery is low to save energy.

SUPPORT

If you have any issues with a driver or installation please let us know by contacting Ultamation support on support@ultamation.com and please include as much detail about your issue as possible, such a recent processor error log.

Licence verification messages are posted to the error log, so please ensure you have checked this.

LICENCE

This module (including software, images and any and all other associated assets distributed as part of the purchased download package) is licenced on a PER PROCESSOR basis.

A licence key is generated at the point of purchase and is linked at that time to specific information that MUST be provided at the time of purchase. A purchase should not be completed without correct information as refunds cannot be issued for errors or changes made to details following purchase.

The licence key for each device will be delivered via email along with links to download the module. There is no physical delivery.

The module is provided without any warranty with respect to the reliability of the controlled device or changes to device protocol. We will endeavour, through best efforts, to maintain the module's functionality and any bug fixes will be provided free-of-charge. Additional functionality may be released as a variation of this module and this will be a separate, purchasable, product.