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NOTE: This guide does not provide instructions for the physical installation of the RS48. Please refer to the instructions accompanying the charger.



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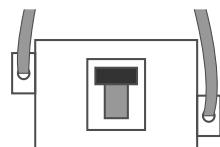
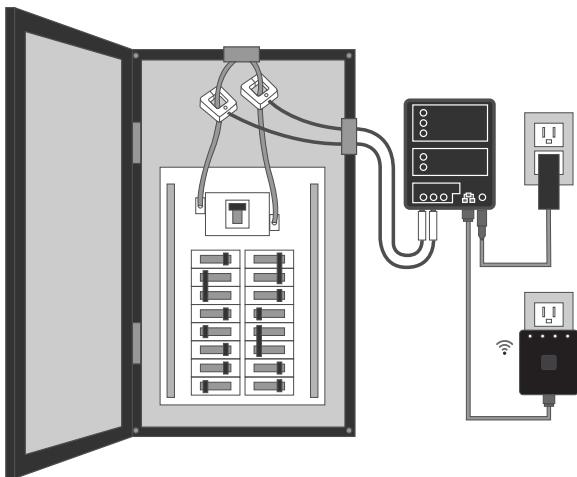
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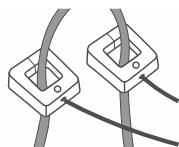
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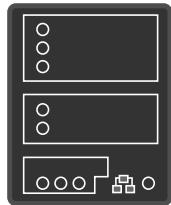
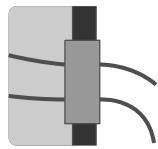
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NOTE: The current sensors provided must be installed only in main panels rated 200A or less.



WARNING: The service mains are always live!



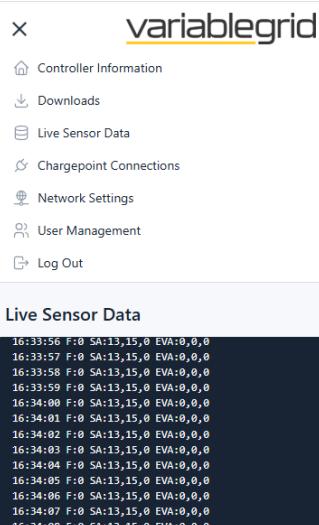
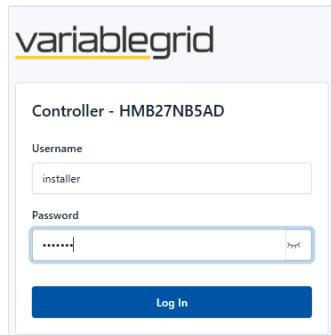


NOTE: The Variablegrid Wi-Fi extender can also be configured manually using the instructions accompanying the extender.

varian.local

NOTE: Some older networks require entry of the IP address assigned to the controller by the home network router.

installer Varian1



NOTE: Swapping cables between jacks can aid in troubleshooting, but confirm cables are in the correct jacks before leaving the site.

NOTE: The L3 LED will be off when no sensor is plugged in and Red when a sensor is incorrectly plugged in.

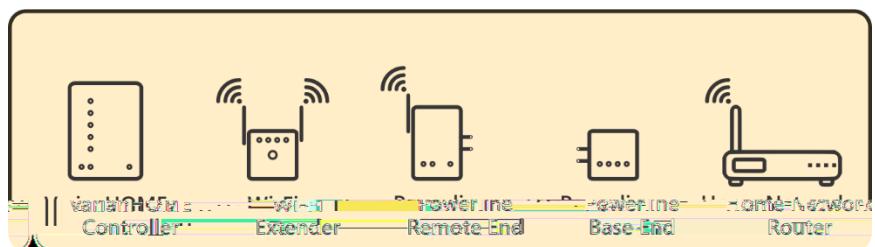
NOTE: Very low readings are uncommon but can occur if the panel is inactive. In this case, turn on some loads on the panel and confirm the LED turns Green.

NOTE: Until the controller is fully configured, the sensed panel maximum defaults to 100A on VarianHOME.

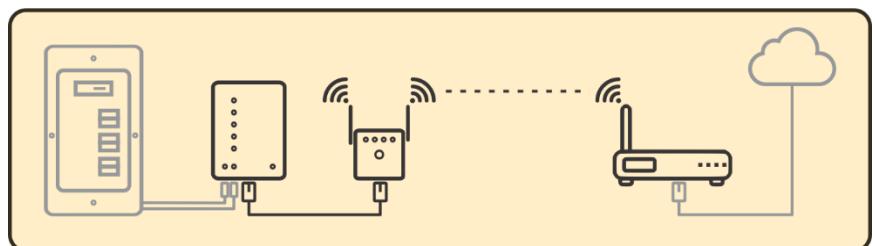
NOTE: Swapping cables between jacks can aid in troubleshooting, but confirm cables are in the correct jacks before leaving the site.

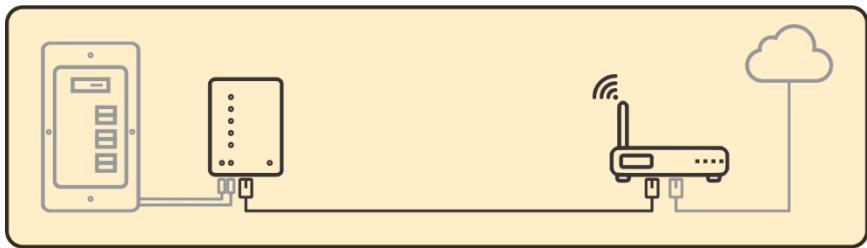
NOTE: Once a sensor is detecting Amps and displays a Green LED, the LED will remain Green even if the detected Amps falls to 0. To reset the sensor fault test, restart the controller or unplug and plug in the sensor cable.

NOTE: VarianHOME connects to the Internet for initial and periodic configuration, and to allow users to manage the EV Charger using the Variablegrid mobile app.



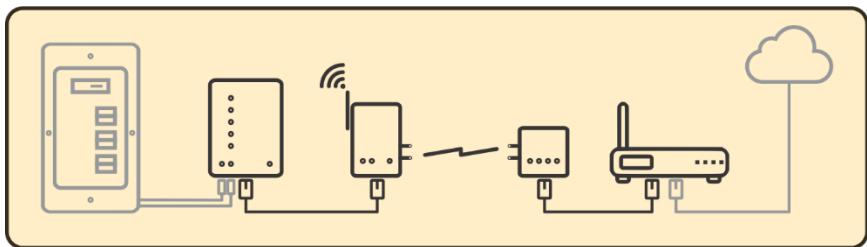
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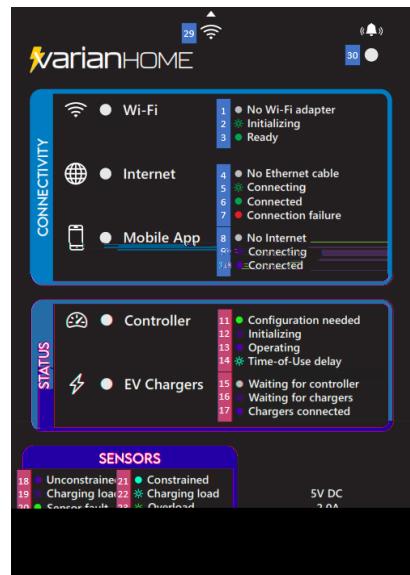


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NOTE: The extender must be configured and operating properly. If the extender is also to be used for EV Charger connectivity then it must have Wi-Fi capability, such as TL-WPA7517KIT.



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setup.variablegrid.com/VH

NOTE: Alternatively, scan the QR code printed on the back of VarianHOME.

The screenshot shows the VarianHOME Configuration interface. At the top, it displays the VarianHOME logo, the text 'Configuration', and a globe icon. Below this, it shows the 'Controller ID : DVKVNYS44B'. The interface is divided into several sections:

- Location Settings**: Contains dropdown menus for 'Country', 'Region', and 'Time Zone'.
- Network Settings**: Contains a 'Static IP Address' input field. A note below it states: "Leave as is unless required by some older home networks. If required, enter an unassigned value (2 to 253) on the local subnet (251 is recommended). The full IP address must be manually configured in each charger."
- Electrical Settings**: Contains input fields for 'Panel Amps' (100), 'Sensor Amps' (200), 'Breaker A Amps' (40), and 'Breaker B Amps' (0). A note above the 'Panel Amps' field states: "IMPORTANT: Electrical settings must be made by a qualified electrical contractor. Incorrect settings will result in improper operation and can result in injury and severe damage to the electrical system." Another note below the 'Panel Amps' field states: "NOTE: Breaker Amps will be derated to 80%, i.e. 40 will allocate a maximum of 32 Amps."
- Breaker Order**: A section with a note: "IMPORTANT: For Variablegrid RS40/CR ONLY the last 8 digits of the serial number are needed." It contains input fields for 'Serial Number 1*' and 'Serial Number 2'.

NOTE: Do not touch Static IP Address unless instructed by Variablegrid.

NOTE: The RS48 serial number is the last 8 digits of the serial number printed on the case.

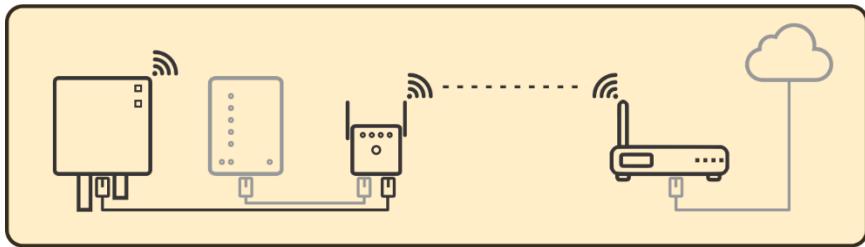
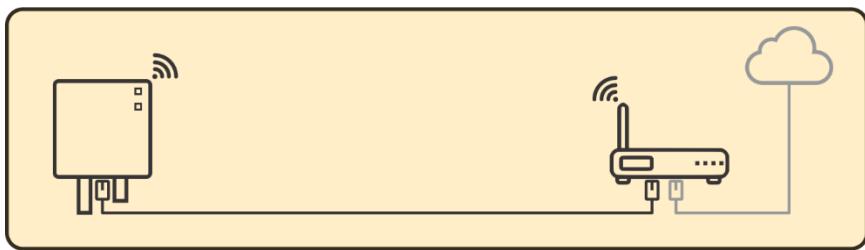
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NOTE: The EV Charger does not connect to the Internet but requires a connection to the home network to receive power allocations from VarianHOME.

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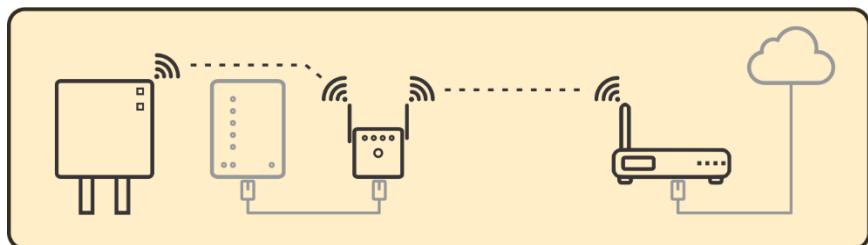
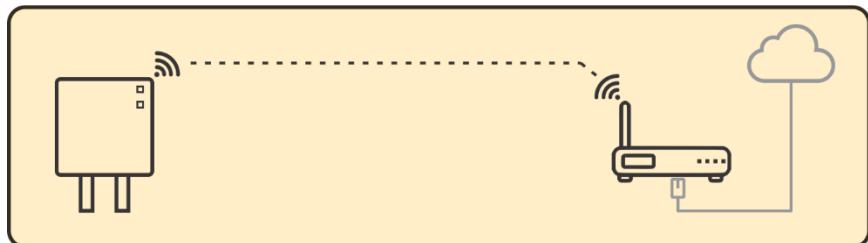
NOTE: Running the Ethernet cable to the extender is easiest if done at the same time as the electrical circuit for the EV Charger is installed.

NOTE: The Wi-Fi interface remains active for EV Charger configuration but is not used for connectivity to the VarianHOME.



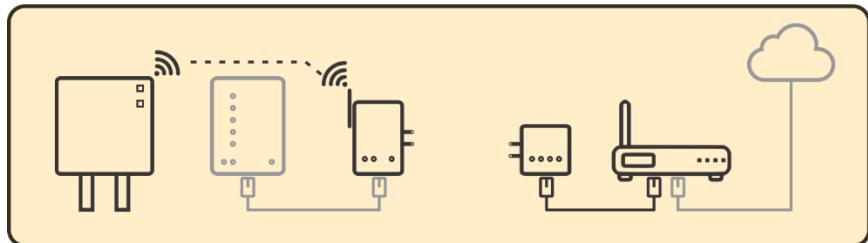
NOTE: Standing by the EV charger, use a phone or tablet to identify the strongest SSID on the home network. Use this SSID to configure the EV Charger in Section 11.

NOTE: A user-supplied extender with a strong signal may also be used.

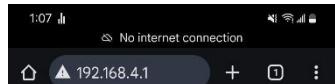


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NOTE: The extender must be properly configured and functioning. The extender must have Wi-Fi capability, such as TL-WPA7517KIT.



NOTE: The serial number is preconfigured as the last 8 digits of the serial number printed on the case.



Login to Manage Account

WIFI

WiFi SSID:

WiFi Password:

NOTE: Do not change any other fields on the Device page unless instructed by Variablegrid tech support.

`ccm:maxpower` 4000
3200

Maintain

Set the value of keys

`ccm:maxpower`

Operate

Restore factory settings

Reboot device

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NOTE: The LED will then change to Green if the connection to VarianHOME has succeeded, or to Red if it has failed. See next section.

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NOTE: If the Controller LED remains Red then VarianHOME has not received the configuration. Power VarianHOME off and on and wait 6 to 8 minutes.

NOTE: The EV Chargers LED on VarianHOME will blink Green when VarianHOME is allocating power to the EV Charger.

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varian.local

NOTE: Some older networks require entry of the IP address assigned to VarianHOME by the home network router in place of varian.local.

variablegrid

Controller - UVH3Z5B6YE

Username:

Password:

variablegrid

Controller Information - UVH3Z5B6YE

UTC CLOCK	UPTIME	PRODUCT	JACKS	VERSION
2024-11-21 23:59	1d, 1h, 40m	HOME	---	11.196

Chargepoint Status
Last Updated: 2024-11-21 23:59:00

OCPP NAME	STATUS	LAST CONNECTED TIME
1120217230	Unknown	-

VarianHOME Online Configuration
Online configuration requires physical access to the controller.
[Online Configuration](#)

variablegrid

- Controller Information
- Downloads
- Live Sensor Data
- Chargepoint Connections
- Network Settings
- User Management
- Log Out

Chargepoint Connections

CONNECT
18:11:17 1120217230 connected
18:11:18 1120217230 disconnected
18:11:18 1120217230 reconnected

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varianhome.com/{Access Code}

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