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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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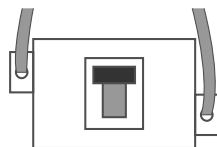
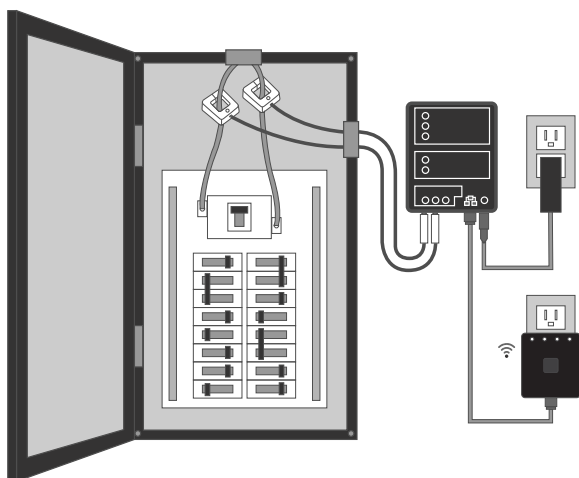
7.



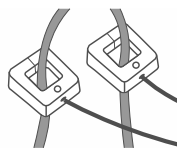
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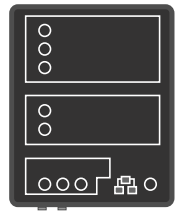
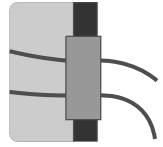
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NOTE: The current sensors provided must be installed only in main panels rated 200A or less.



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 Varian 1

NOTE: The third value in the SA group will be 0.

variablegrid

Controller - HMB27NB5AD

Username

installer

Password

.....

Hide

Log In

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variablegrid

Controller Information

Downloads

Live Sensor Data

Chargepoint Connections

Network Settings

User Management

Log Out

Live Sensor Data

16:33:56 F:0 SA:13,15,0 EVA:0,0,0

16:33:57 F:0 SA:13,15,0 EVA:0,0,0

16:33:58 F:0 SA:13,15,0 EVA:0,0,0

16:33:59 F:0 SA:13,15,0 EVA:0,0,0

16:34:00 F:0 SA:13,15,0 EVA:0,0,0

16:34:01 F:0 SA:13,15,0 EVA:0,0,0

16:34:02 F:0 SA:13,15,0 EVA:0,0,0

16:34:03 F:0 SA:13,15,0 EVA:0,0,0

16:34:04 F:0 SA:13,15,0 EVA:0,0,0

16:34:05 F:0 SA:13,15,0 EVA:0,0,0

16:34:06 F:0 SA:13,15,0 EVA:0,0,0

16:34:07 F:0 SA:13,15,0 EVA:0,0,0

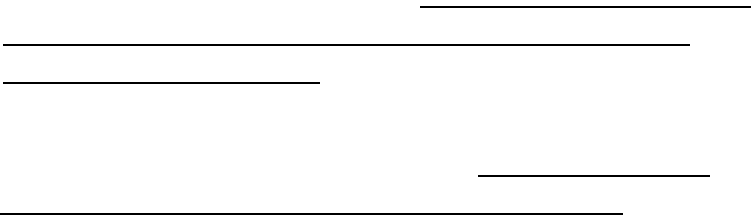
16:34:08 F:0 SA:13,15,0 EVA:0,0,0

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.

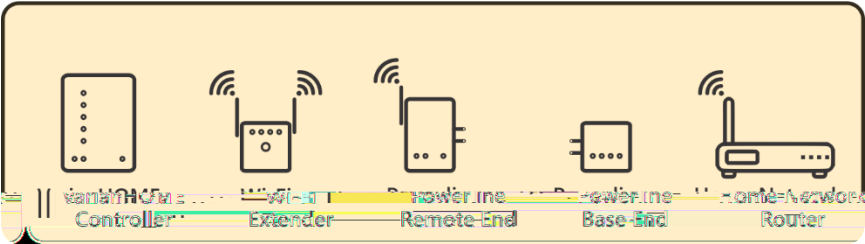


NOTE: Swapping cables between jacks can aid in troubleshooting, but confirm cables are in the correct jacks before leaving the site.

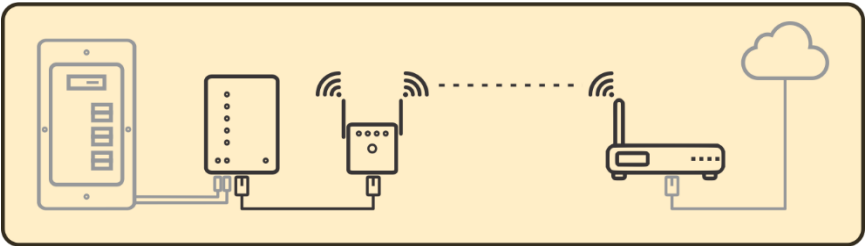
NOTE: Once a sensor is detecting Amps and displays a Green LED, the LED will remain Green even if the detected Amps falls to 0. To reset the sensor fault test, restart the controller or unplug and plug in the sensor cable.

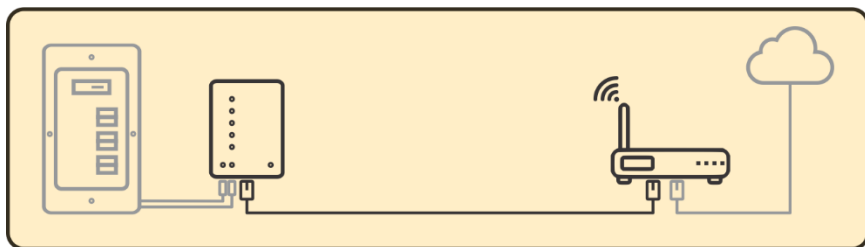
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NOTE: VarianHOME connects to the Internet for initial and periodic configuration, and to allow users to manage the EV Charger using the Variablegrid mobile app.

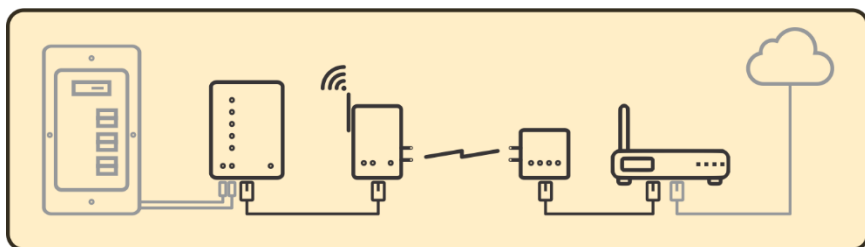


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NOTE: The extender must be configured and operating properly. If the extender is also to be used for EV Charger connectivity then it must have Wi-Fi capability, such as TL-WPA7517KIT.




setup.variablegrid.com/VH


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

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.



Configuration



Controller ID : DKVONYS44B

Location Settings

Country

Country ▾

Region

Region ▾

Time Zone

Select TL... ▾

Network Settings

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.

Static IP Address

Electrical Settings

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.

NOTE: Breaker Amps will be derated to 80%, i.e. 40 will allocate a maximum of 32 Amps.

Panel Amps

100

Sensor Amps

200

Breaker A Amps

40

Breaker B Amps

0

Breakout Options

IMPORTANT: For Variablegrid RS400C ONLY the last 8 digits of the serial number.

Serial Number 1 *

Serial Number 2

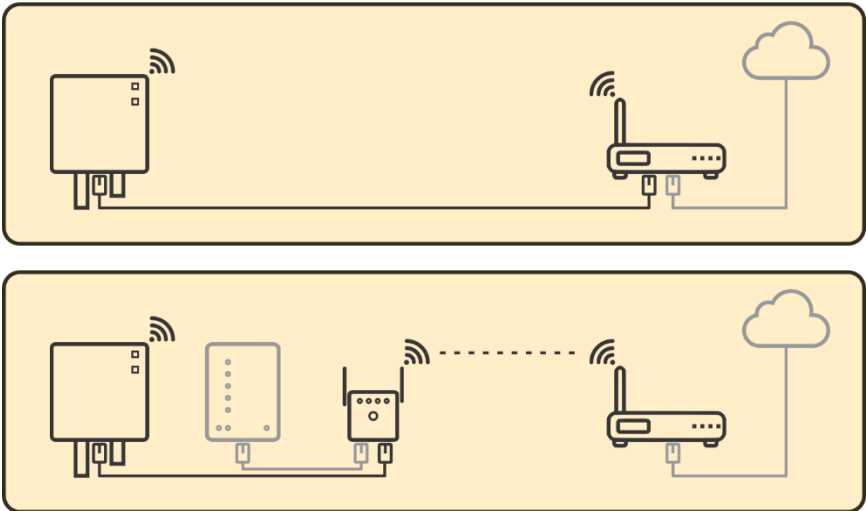
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NOTE: The EV Charger does not connect to the Internet but requires a connection to the home network to receive power allocations from VarianHOME.

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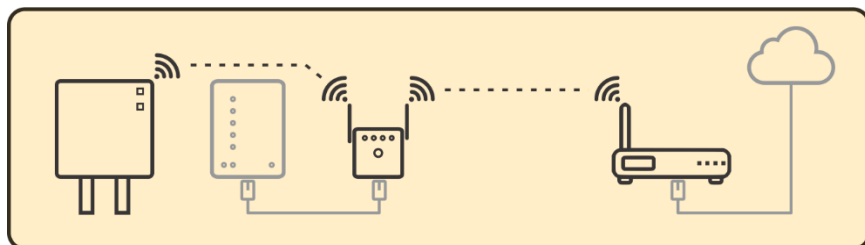
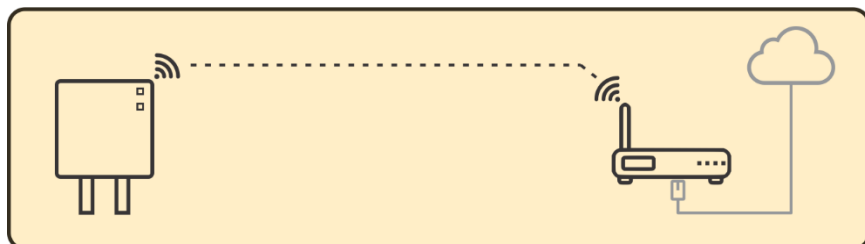
NOTE: Running the Ethernet cable to the extender is easiest if done at the same time as the electrical circuit for the EV Charger is installed.

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



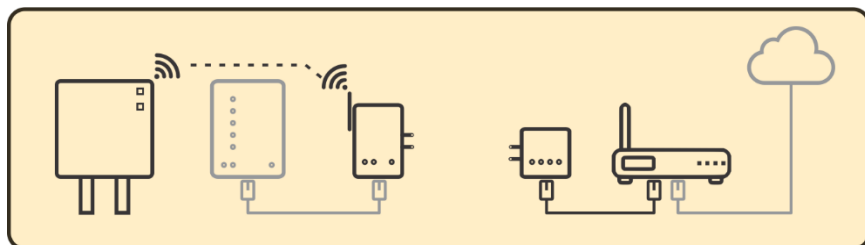
NOTE: Standing by the EV charger, use a phone or tablet to identify the strongest SSID on the home network. Use this SSID to configure the EV Charger in Section 11.

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

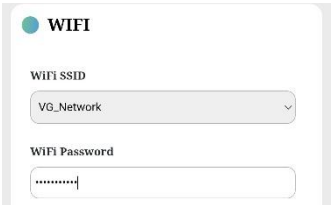
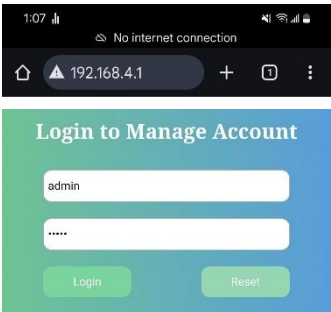


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NOTE: The extender must be properly configured and functioning. The extender must have Wi-Fi capability, such as TL-WPA7517KIT.

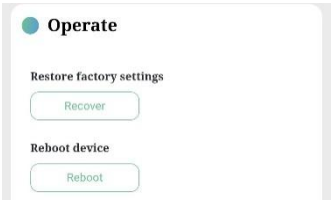
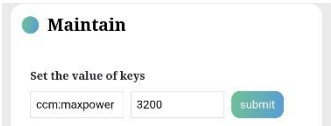


NOTE: The serial number is preconfigured as the last 8 digits of the serial number printed on the case.



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

`ccm:maxpower` 4000
 3200



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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.

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

installer

Password

Log In

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 1128217230 connected

18:11:18 1128217230 disconnected

18:11:18 1128217230 reconnected

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