

Home System

A reference guide for owners of:

- The GM Energy PowerShift Charger
- The GM Energy Home Hub and the GM Energy Inverter
- The GM Energy PowerBank

User Manual

Version 1.1 - October 2024

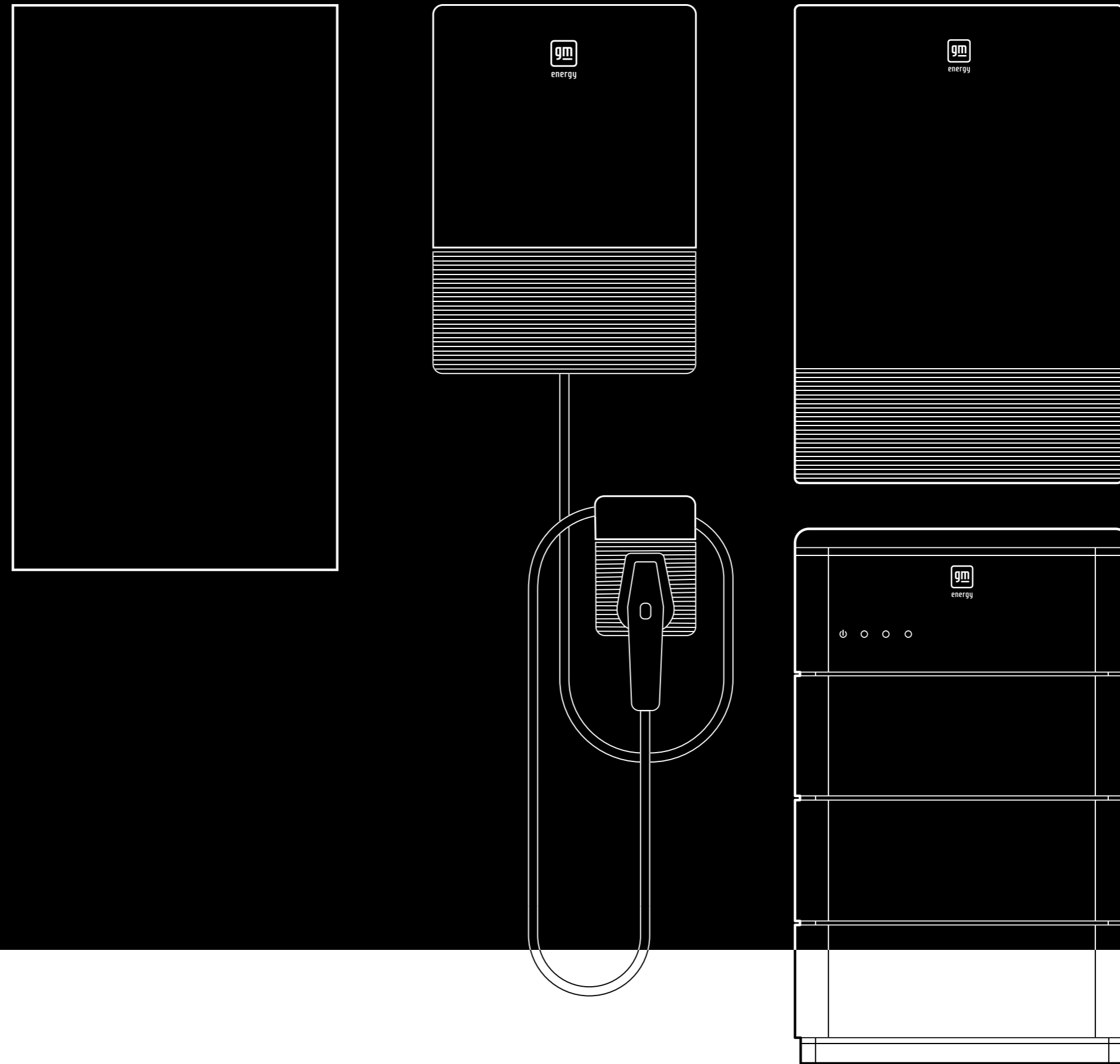


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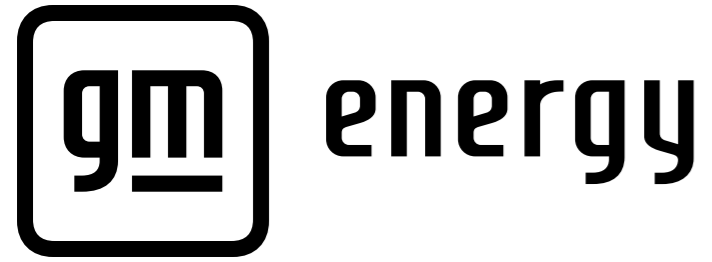
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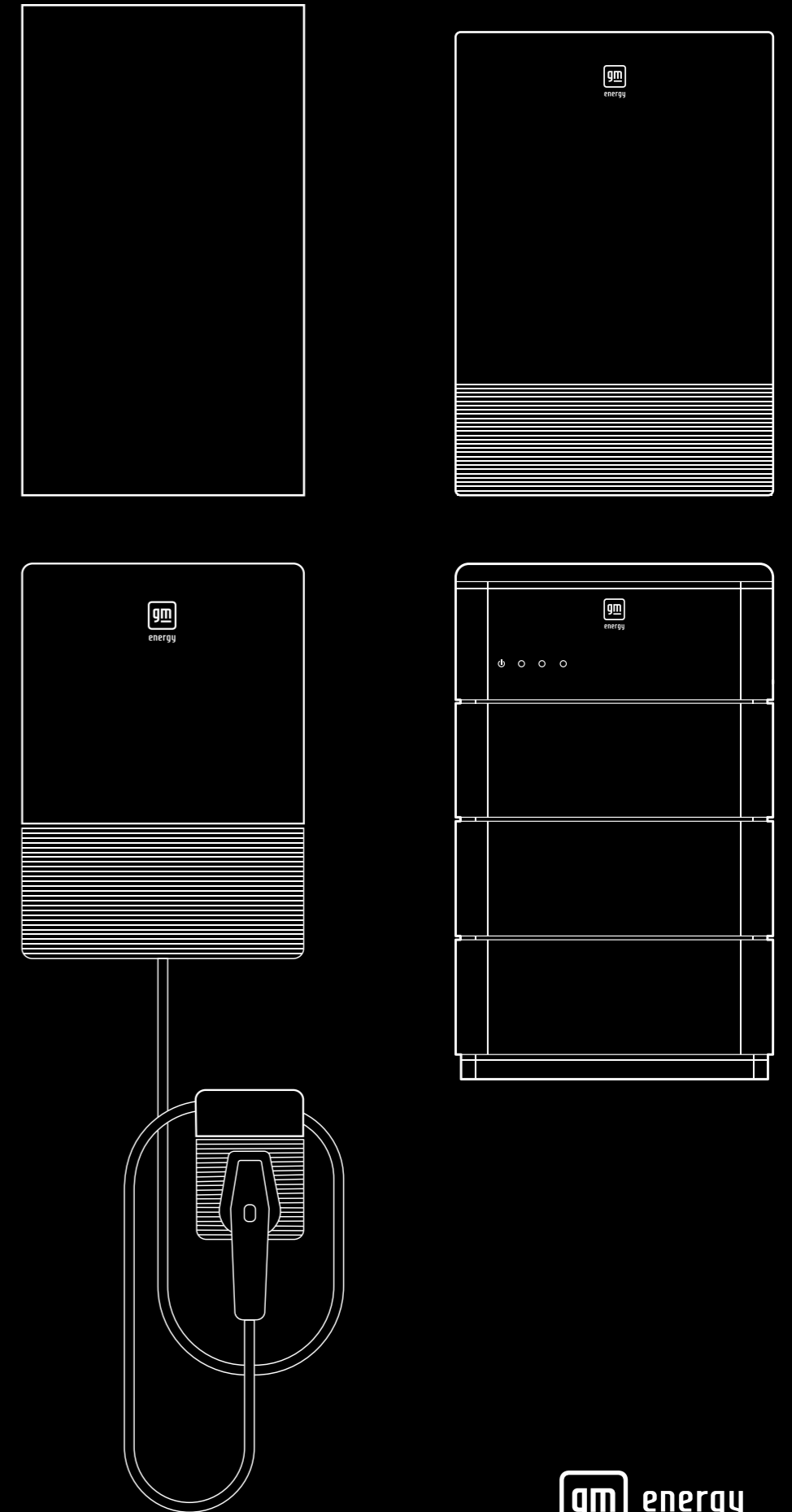
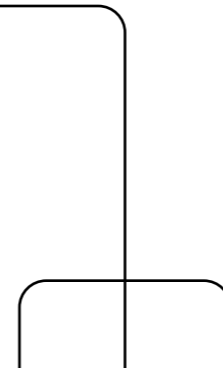
WELCOME

Congratulations on Choosing the GM Energy Home System

This guide is designed to familiarize you with the GM Energy **Home System**, which stores energy from the grid or compatible solar panels and manages the flow of power between the GM Energy PowerBank, your Compatible GM EV and your home. In this User Manual, you will find a component overview, how-to tips, troubleshooting information and more. In the back of this User Manual, you'll find a list of common questions, as well as a **Glossary** of terms used here and in other GM Energy resources.

How to use this interactive PDF

Use the **Arrow Buttons** to navigate between pages, or use the **Home Button** to return to the **Table of Contents**.



IMPORTANT SAFETY INSTRUCTIONS

Save These Instructions

To prevent the risk of PROPERTY DAMAGE, SERIOUS INJURY or DEATH, read and follow all warnings, safety precautions and instructions in this User Manual, each component Installation and Operation Manual, and your GM EV Owner's Manual. Keep this User Manual for future reference.

The GM Energy Home Products should be installed only by a licensed contractor and/or a licensed electrician in accordance with all applicable state, local and national electrical codes and standards. Installer must also complete Manufacturer's Certification prior to installation or repair of the GM Energy PowerBank.

After installation, it's recommended that your system is connected and commissioned with a secure Wi-Fi network.

In the event of a fire in or around the components, evacuate the premises and contact local emergency services.

WARNING

Please read the instructions carefully and follow all safety precautions in each Installation and Operation manual before using these products. Potentially hazardous circumstances may occur due to improper operating conditions, damage, misuse and/or abuse. Access these manuals on the GM Energy website <https://gmenergy.gm.com/for-home/installation-support>.

WARNING

To reduce risk of serious burns, explosion, fire, electric shock or other serious injury:

- Do not attempt to open any equipment unless otherwise directed by this User Manual
- Do not attempt to use any part of the system or fix/alter any components. Visually inspect cables, connectors and housings for damage before each use. If any part of the system or its components appear to be damaged, contact the GM Energy Customer Support Center
- Do not store any flammable liquids or gases or other potentially explosive objects on or near the system or its components
- Do not expose any of the equipment to direct flames
- Do not submerge the equipment in water
- Do not use high-pressure water to clean the equipment
- Do not clean the equipment with harsh cleaning chemicals
- Do not remove any labels from the system or installed components
- Do not place foreign objects on top of any of the installed components
- Do not lean any foreign objects on any of the installed components
- Ensure proper clearances are maintained in the area surrounding the installed components
- Ensure components are installed and maintained in areas with proper ventilation
- Do not attempt to alter the wiring of the components. Incorrect wiring can lead to high-voltage exposure

WARNING

ALWAYS position the cord of the Charging Coupler so that it will not be driven over, stepped on, tripped over or otherwise damaged or stressed while in use. To prevent personal injury or damage to the GM Energy PowerShift Charger, Charging Coupler and its cord, ALWAYS stow the cord of the Charging Coupler properly after use.

WARNING

The GM Energy Home equipment should not be used as a primary or backup power source for medical equipment or any other products in which failure could lead to injury or loss of life.

WARNING

To reduce the risk of strangulation, keep small children away from the cord of the Charging Coupler and ALWAYS stow the Charging Coupler after use. Do not leave children unattended or unsupervised around chargers or other power devices.

WARNING

This product can expose you to chemicals which are known to the State of California to cause cancer and which are known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

CAUTION

Do not paint the components. Changing the color of the external-facing surfaces can degrade the product life.

IMPORTANT SAFETY INSTRUCTIONS

GM Energy PowerBank

WARNING

There is a risk of explosion when the GM Energy PowerBank is heated above 302 F (150 C). When a GM Energy PowerBank is burning, it will leak poisonous gases. Do not approach a burning GM Energy PowerBank. Evacuate the premises and contact the local emergency authorities immediately.

WARNING

Damaged batteries are dangerous and must be handled with extreme caution. They are not fit for use and may pose a danger to people or property. If the GM Energy PowerBank seems to be damaged, contact the GM Energy Customer Support Center.

- The GM Energy PowerBank should only be serviced by qualified personnel
- The electronics inside the GM Energy PowerBank are vulnerable to electrostatic discharge
- Do not rest or place the GM Energy PowerBank upside down at any time
- Do not charge or discharge a damaged GM Energy PowerBank
- Only use the GM Energy PowerBank with the GM Energy Inverter
- Disposal of the GM Energy PowerBank should be carried out by an expert with specialized knowledge and experience in electrical and environmental safety, in accordance with all applicable laws and regulations, at designated waste disposal facilities using safe and appropriate methods

WARNING

The GM Energy PowerBank is designed to meet North American safety standards. To prevent the risk of electrical shock and ensure proper long-term operation of the system, read and follow all instruction manuals and safety precautions. Service must be performed by a qualified person pursuant to the National Electric Code, local building codes and local ordinances.

WARNING

Response to Emergency Situations

Fire: If a fire breaks out at the location where the GM Energy PowerBank is installed, evacuate the premises and contact the local emergency authorities immediately. In the event of a fire near the battery or if the GM Energy PowerBank is on fire, do not attempt to extinguish the fire. Immediately evacuate all individuals from the premises. If it is safe to do so, the user should disconnect the GM Energy PowerBank circuit breaker to shut off the power to charge.

Flooding: If any part of the GM Energy PowerBank, GM Energy Inverter or wiring is submerged, stay out of the water and do not touch anything. Do not use the submerged GM Energy PowerBank again. If it is safe to do so, the user should disconnect the GM Energy PowerBank circuit breaker to shut off the power to charge. Contact your service engineer for assistance or contact the emergency authorities if you consider there to be any risk.

For instructions on shutting off the GM Energy PowerBank, refer to [Getting to Know Your System](#).

Federal Communications Commission Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

GETTING TO KNOW YOUR SYSTEM

Each Component Has a Job

Your GM Energy Home System integrates a number of GM Energy components that work together to store and distribute power from the grid or compatible solar panels as desired. During a power outage, it can automatically send power to your home and, thanks to bidirectional charging technology, use your Compatible GM EV as supplemental backup power. These components have been designed to work together in a safe, convenient and reliable way, but each has a specific job to do.

GM Energy PowerShift e1.19

- Includes the Charging Coupler and Charging Holster
- Manages the transfer of electricity to and from your Compatible GM EV
- Is capable of up to 19.2 kW of charging power
- Can send up to 9.6 kW of discharge power to your home during an outage when paired with the GM Energy V2H Enablement Kit and a properly equipped GM EV

GM Energy PowerBank

- Stores energy from the grid or compatible solar panels
- Works with the GM Energy Inverter e1.11 to power your properly equipped home as a source of power during an outage or when energy costs are high
- Offered in three sizes: 10.6 kWh, 17.7 kWh and 35.4 kWh. Note that the 35.4 kWh product offering includes two 17.7 kWh components
- Integrates seamlessly with the GM Energy V2H Enablement Kit

 **Note:** Not all solar panels are compatible with the GM Energy Home System.

The GM Energy V2H Enablement Kit

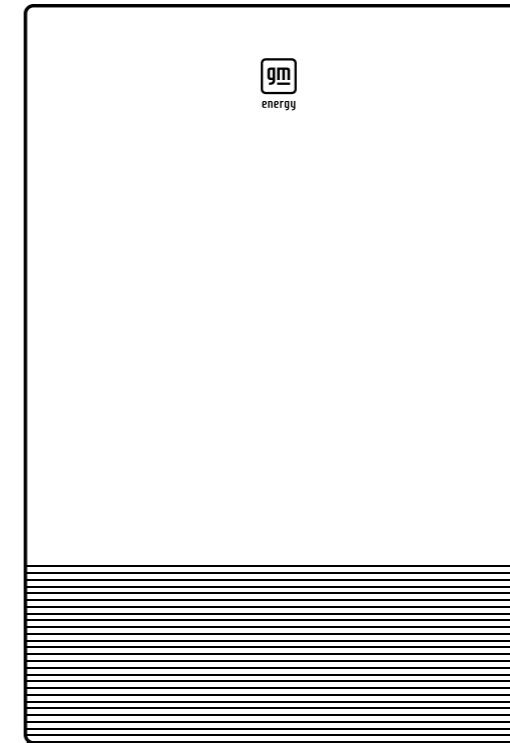
- Includes the GM Energy Home Hub e1.200 and GM Energy Inverter e1.11
- Enables your Compatible GM EV to act as a battery that can send power to your properly equipped home (sometimes referred to as “backup power mode”)
- Enables the GM Energy PowerBank to send power (stored from the grid or compatible solar panels) to your home when electricity rates are high or during a power outage

More information about each component follows.

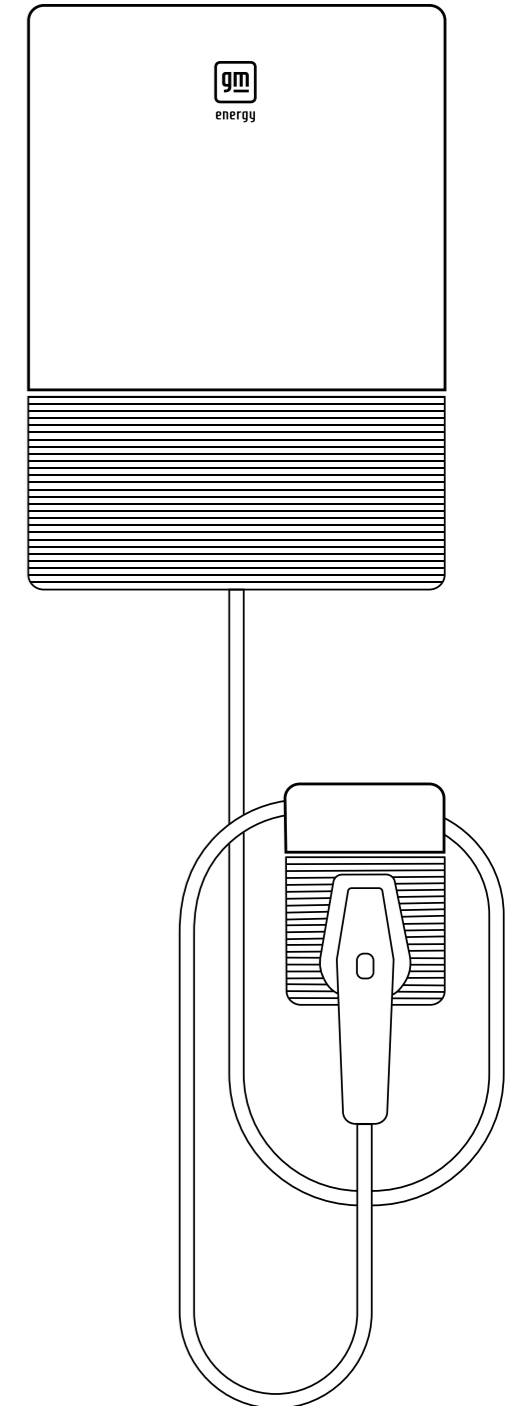
GM Energy Home Hub



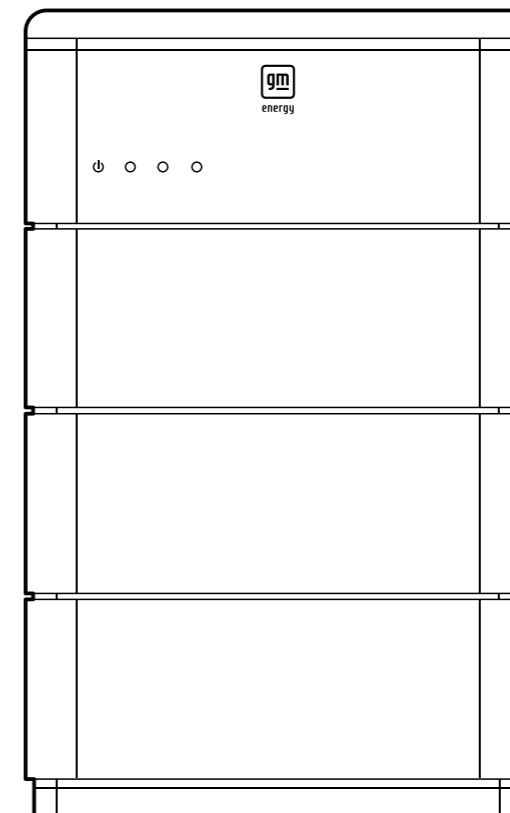
GM Energy Inverter




GM Energy PowerShift Charger



GM Energy PowerBank



 **Note:** The GM Energy Dark Start Battery may be present if the GM Energy V2H Bundle was previously purchased. The GM Energy Home System does not require this component but can function with or without it.

GETTING TO KNOW YOUR SYSTEM

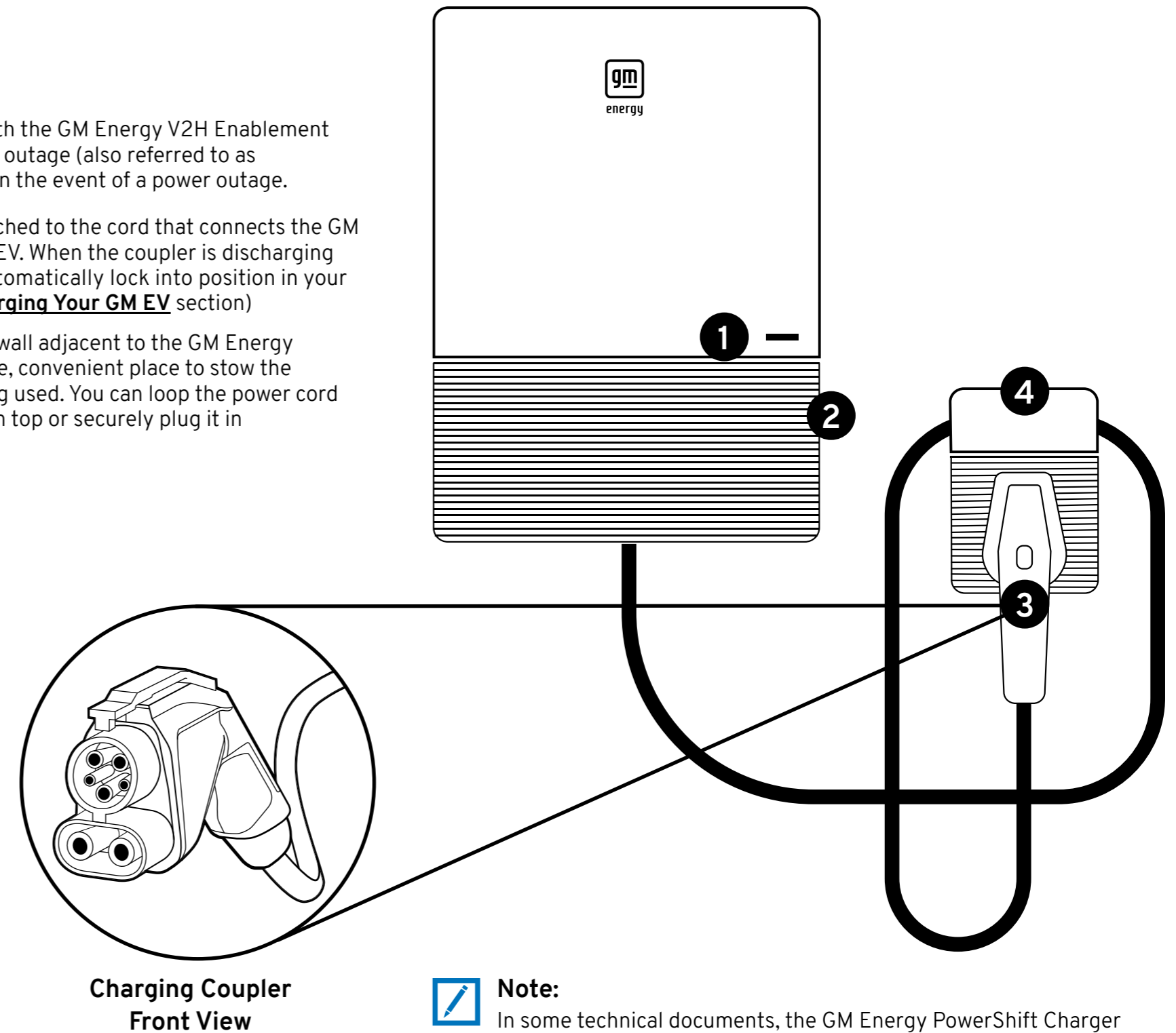
GM Energy PowerShift Charger


Understanding how it works

Your GM Energy PowerShift Charger uses electricity from your home to charge the batteries in your GM EV. When paired with the GM Energy V2H Enablement Kit and a Compatible GM EV, it also manages the bidirectional power transfer needed to send power to your home during an outage (also referred to as “discharging”). If you leave your Compatible GM EV plugged in and have enabled the backup power feature, it will be ready in the event of a power outage.

1. **LED Indicator** – Found on the front of the GM Energy PowerShift Charger (on the right side), it flashes different colors and codes to indicate its operating mode. (See the [Decoding the Blinking LED Lights](#) section)
2. **Power Button** – Found on the right side of the charger; press this to stop or start a charging or discharging session at any time

3. **Charging Coupler** – The device attached to the cord that connects the GM Energy PowerShift Charger to a GM EV. When the coupler is discharging energy back to your home, it will automatically lock into position in your GM EV’s charging port. (See the [Charging Your GM EV](#) section)
4. **Charging Holster** – Mounted on the wall adjacent to the GM Energy PowerShift Charger, it provides a safe, convenient place to stow the Charging Coupler when it is not being used. You can loop the power cord around the holster and then rest it on top or securely plug it in



 **Note:** In some technical documents, the GM Energy PowerShift Charger may be referred to as **EVSE** (Electric Vehicle Supply Equipment).

GETTING TO KNOW YOUR SYSTEM

GM Energy PowerBank

The GM Energy PowerBank gives you the peace of mind that comes with energy freedom. Capture and store your own energy to use when you need to send power back to your home. It may even help lower your electric bills if used when utility prices surge.

- Automatically directs power to your home in the event of a power outage
 - Able to integrate seamlessly with your Compatible GM EV as a backup power source
 - Automatically manages its charging modes, whether during a power outage or after power is restored to the grid
 - Has potential to save money on energy bills by shifting power usage to off-peak times
 - Seamlessly integrates with compatible solar power systems and GM Energy Inverter, enabling you to store renewable energy
 - Lets you conveniently manage the flow of power to and from your home using the mobile app (myChevrolet, myBuick, myGMC or myCadillac). See the [Using Your GM EV's Mobile App](#) section
- Available in three sizes to fit your needs; each operates in the same way and delivers similar functional benefits, but with increasing levels of storage capacity
 - 10.6 kWh
Maximum charge/discharge on grid/off grid: 5 kW
 - 17.7 kWh
Maximum charge/discharge on grid/off grid: 7 kW
 - 35.4 kWh
Maximum charge/discharge on grid: 11.5 kW*; off grid: 9.6 kW*

Shutting off the GM Energy PowerBank

In the event of an emergency or malfunction, you may want to shut off the GM Energy PowerBank. To turn off this component, follow these steps:

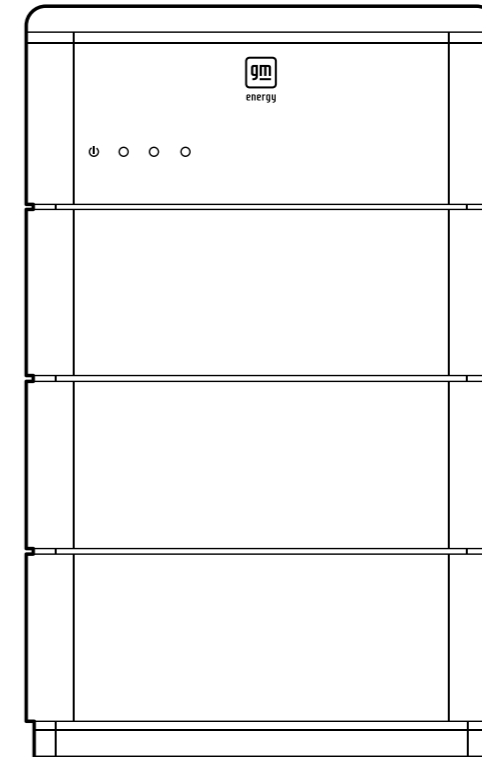
⚠ WARNING

To reduce risk of serious burns, explosion, fire, electric shock or other serious injury, only shut off the GM Energy PowerBank if it is safe to do so. If the GM Energy PowerBank appears to be damaged, contact the GM Energy Customer Support Center.

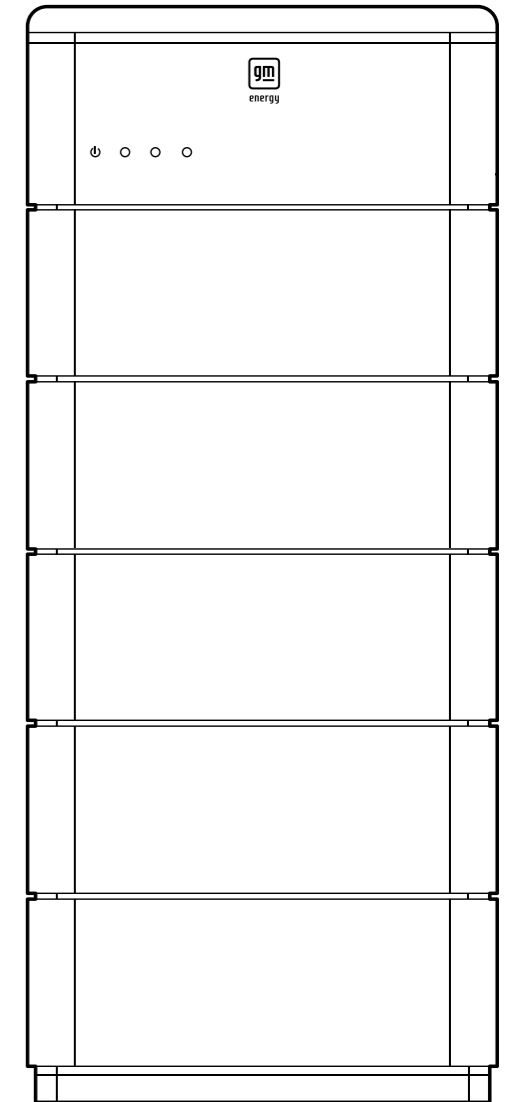
1. Turn off the GM Energy Inverter
2. Open the front cover and circuit breaker cover on the GM Energy PowerBank
3. Turn off the component by flipping the circuit breaker switch to OFF
4. After 60 seconds have passed, make sure all LED indicator lights have turned off. This indicates that GM Energy PowerBank has fully shut off
5. Close the circuit breaker cover and front cover

*Power output will be limited by the GM Energy Inverter.

GM Energy PowerBank e1.10
(EU0407N00B_3S)
10.6 kWh



GM Energy PowerBank e1.17
(EU0407N00B_5S)
17.7 kWh



Note:

The **GM Energy PowerBank 35.4 kWh** storage capacity consists of two 17.7 kWh units.

GETTING TO KNOW YOUR SYSTEM

GM Energy Home Hub

⚠ WARNING

The GM Energy Home equipment should not be used as a primary or backup power source for medical equipment or any other products in which failure could lead to injury or loss of life.

During a power outage, the GM Energy Home Hub safely disconnects your home from the local power grid and enables backup power to flow from the GM Energy Inverter throughout your home. The GM Energy Home Hub has circuit breakers inside just like a main service panel.



Note:

Depending on your home's unique installation, certain appliances or circuits may not be powered during backup power mode.

You determine your experience

- The GM Energy Home Hub can be installed using a number of configurations. When your system was installed, your installer should have walked you through the modifications that were made to your home's electrical system
- For more information on your system's unique setup, view the inside cover of the GM Energy Home Hub. Note that there is a dedicated breaker for the GM Energy Inverter and also for any compatible solar input. For further information, contact your installer or the GM Energy Customer Support Center
- To optimize your experience, consider which appliances draw a lot of power or are prone to power surges so that you can avoid disrupting the discharging session

Find more information about how to check the GM Energy Home Hub in [Troubleshooting Tips](#).



Note:

In some technical documents, the GM Energy Home Hub may be referred to as an **MID** (Microgrid Interconnect Device).

Compatible Solar Input
(for existing solar)

GM Energy Inverter
Dedicated Breaker

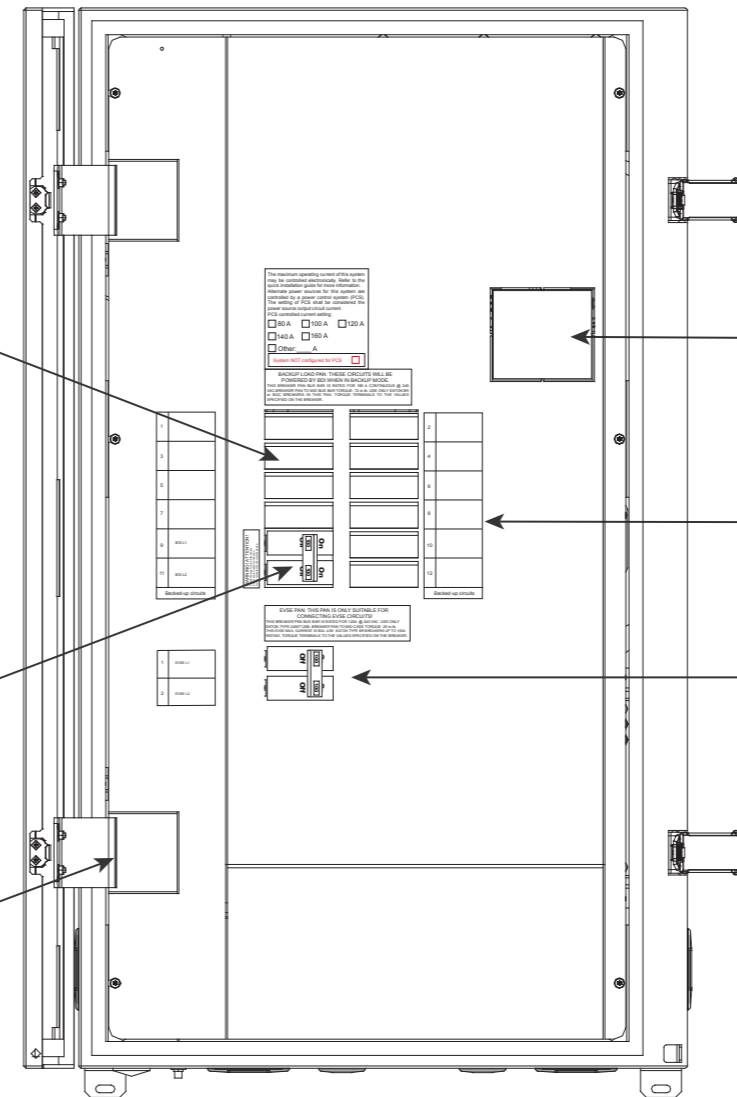
Door Hinge (2x)

Optional Main Breaker Port

Branch Breaker Port

Optional EVSE Port

Door Buckle (2x)



Note:

Latches on the GM Energy Home Hub door have been fitted with covers; users may remove covers if desired.

GETTING TO KNOW YOUR SYSTEM

GM Energy Inverter

In general terms, an inverter is an electrical system that converts between **direct current (DC) power** from a battery, compatible solar panels or electric vehicle and **alternating current (AC) power** that can be safely used to power homes, appliances and other electrical devices. Your GM Energy Inverter is also designed to regulate how much power is being discharged from your GM Energy Home System (either the GM Energy PowerBank, compatible solar panels or a Compatible GM EV) during an outage or for on-demand use.

Solar Disconnect Switch

- The red knob on the bottom can be used to stop power from compatible solar panels wired directly to the GM Energy Inverter from being sent to your home without disrupting energy flow from the rest of the system. This disconnect switch should only be used by qualified service and installation technicians

GM Energy PowerBank Wake-Up Button

- The red button on the bottom of the GM Energy Inverter is only needed in certain circumstances to power up the GM Energy Home System during a power outage. (For more information, refer to the [Troubleshooting](#) section)

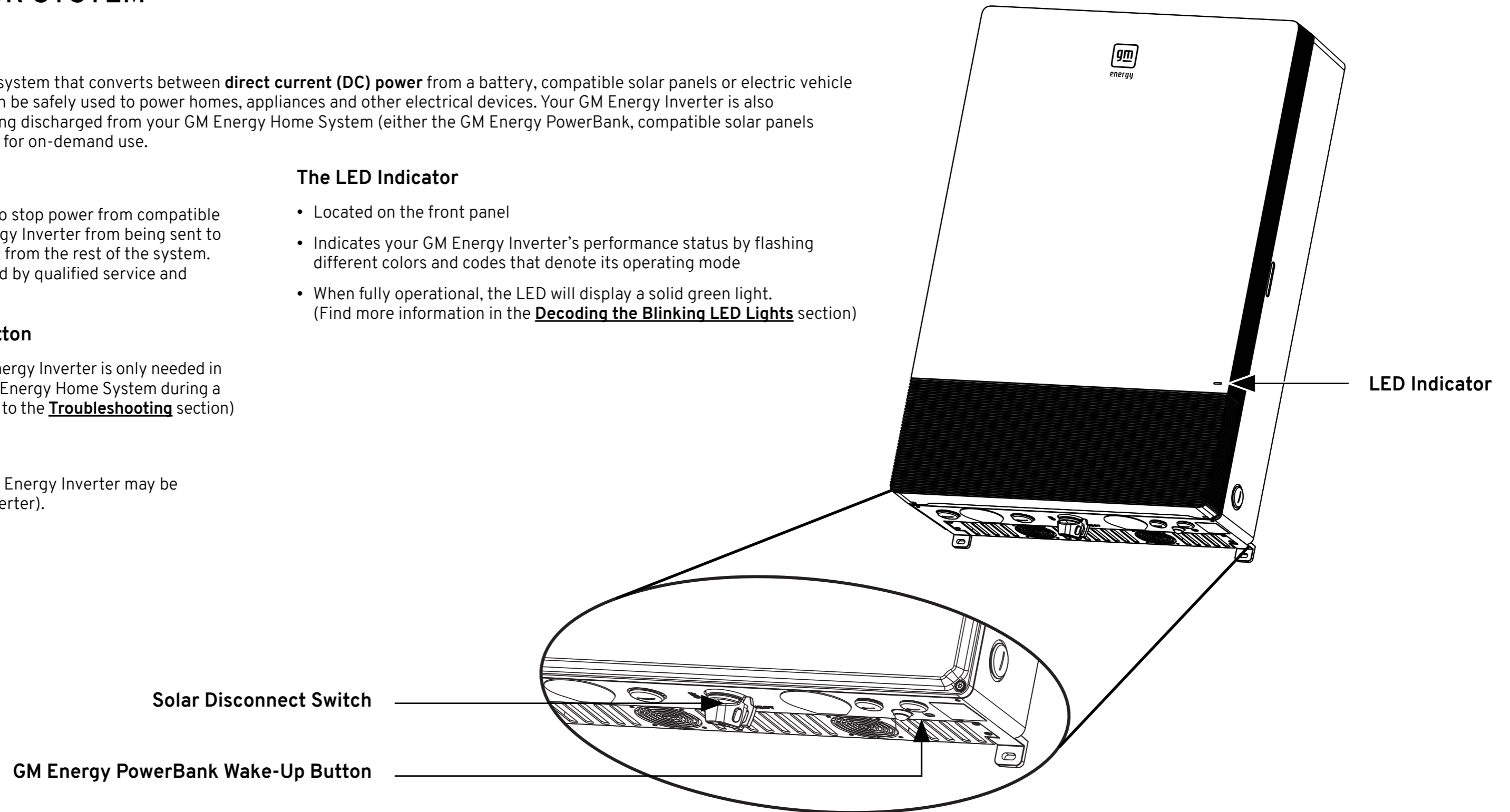


Note:

In some technical documents, the GM Energy Inverter may be referred to as a **BDI** (Bidirectional Inverter).

The LED Indicator

- Located on the front panel
- Indicates your GM Energy Inverter's performance status by flashing different colors and codes that denote its operating mode
- When fully operational, the LED will display a solid green light. (Find more information in the [Decoding the Blinking LED Lights](#) section)



NEED-TO-KNOW ACTION ITEMS

WARNING

To reduce the risk of strangulation, keep small children away from the cord of the Charging Coupler and ALWAYS stow the Charging Coupler after use. Do not leave children unattended or unsupervised around chargers or other power devices.

Charging Your GM EV

The front of the GM Energy PowerShift Charger has a small LED Indicator light that flashes in different colors and patterns to signal the charging status. When the circuit breaker is first turned on, this light will blink with a white light. When it stops blinking, the charger is ready. Now you can begin charging your GM EV. (Find more information in the [Decoding the Blinking LED Lights](#) section.)

- Fully uncoil the cord of the Charging Coupler from the Charging Holster
- Plug the Charging Coupler into your GM EV's charging port by pushing it into your GM EV's charging outlet until it clicks
- The LED light on the GM Energy PowerShift Charger will blink on and off with a green light, indicating a charging session is in progress
- When the green LED stops blinking, the GM EV has completed its charging session
- If you are ready to drive, disconnect the Charging Coupler and secure it safely on the Charging Holster. Otherwise, leave the Compatible GM EV plugged in so that it's always ready in case of a power outage



Note:

Charging a GM EV during an outage is not possible; however, compatible solar panels may provide power to your home and GM Energy PowerBank, if equipped.

NEED-TO-KNOW ACTION ITEMS

Troubleshooting Tips

WARNING

To reduce risk of serious burns, explosion, fire, electric shock or other serious injury, visually inspect the system and its components for any damage before each use. Do not attempt to use any part of the system or fix/alter the components if the system appears physically damaged.


WARNING

The GM Energy PowerBank is designed to meet North American safety standards. To prevent the risk of electrical shock and ensure proper long-term operation of the system, read and follow all instruction manuals and safety precautions. Service must be performed by a qualified person pursuant to the National Electric Code, local building codes and local ordinances.

The Power Goes Out – Your GM Energy PowerBank Is Ready to Go

Because your GM Energy Home System includes the GM Energy PowerBank, your home will be automatically backed up in the event of a power outage.

- The GM Energy PowerBank will automatically provide power to your home (unless it has been previously depleted)
- The GM Energy PowerBank has a quick response time to grid outages, so home backup should be initiated in approximately five seconds
- The GM Energy PowerBank is not dependent on your vehicle as a source of power, but it can seamlessly use your Compatible GM EV as a backup if it is plugged into the GM Energy PowerShift Charger
- Use your vehicle's mobile app to monitor how much estimated battery power is remaining
- Once grid power is restored, the system will automatically return to the normal charging operation – no action on your part is required

 **Note:** If none of these troubleshooting tips resolve issues, contact the GM Energy Customer Support Center.

Troubleshooting

Check the LED indicators on the front of the GM Energy PowerBank to determine its status. (Find more information in the [Decoding the Blinking LED Lights](#) section.) A warning state is triggered when a condition, such as with voltage or temperature, is beyond design limitations.

- The GM Energy PowerBank reports its operating status to the GM Energy Inverter. When the GM Energy PowerBank falls outside prescribed limits, it enters a warning state. When a warning is reported, the GM Energy Inverter may immediately stop operation
- The warning state is cleared when the GM Energy PowerBank recovers normal operation
- If the GM Energy PowerBank is not working correctly and the issue persists, contact the GM Energy Customer Support Center for assistance

The Power Goes Out and Stays Out – Your GM Energy PowerBank Is Getting Low

- To protect your GM Energy PowerBank from fully depleting its energy stores in the event of a power outage, the system will reserve a small amount of remaining energy to allow it to wake up and initiate backup power with a Compatible GM EV
- When the GM Energy PowerBank reaches its preset reserve level, the system will automatically use your Compatible GM EV to provide backup power to your home, provided it has available reserves and is plugged into the GM Energy PowerShift Charger
- Use your vehicle's mobile app to monitor the estimated battery reserve level. (Find more information in the [Using Your GM EV's Mobile App](#) section)
- If the GM Energy Home System uses up its available stored power, it will discontinue discharging energy to your home. It will immediately return to the normal charging operation (for the GM Energy PowerBank and your Compatible GM EV) when power is restored

The Power Goes Out – Your GM Energy PowerBank Is Not Discharging Power to Your Home

If you believe your GM Energy PowerBank is charged, but it is not automatically discharging power to your home, it is advisable to contact the GM Energy Customer Support Center for assistance.

- It is helpful to note the status of the LED indicators on the GM Energy PowerBank and report this when you place your call for assistance

NEED-TO-KNOW ACTION ITEMS

Troubleshooting Tips

WARNING

To reduce risk of serious burns, explosion, fire, electric shock or other serious injury, visually inspect the system and its components for any damage before each use. Do not attempt to use any part of the system or fix/alter the components if the system appears physically damaged.

The Power Goes Out – Your GM EV Was Plugged In

What if you experience a power outage and your GM Energy Power Bank reaches its reserve level? Your Compatible GM EV is another source of backup power.

- If your Compatible GM EV is plugged in and set to “Automatic Backup Power” in your Compatible GM EV’s mobile app (myChevrolet, myBuick, myGMC or myCadillac) – even if it is not fully charged – the GM Energy Home System will begin discharging energy to your home as soon as it recognizes a power outage. Once you have identified your home charging location in the vehicle screen or mobile app, no further action is needed. (Find more information in the [Using Your GM EV’s Mobile App](#) section)
- A solid blue LED light on the GM Energy PowerShift Charger indicates the bidirectional charging system is initiating a backup power session (this should take less than one minute)
- A slowly blinking green light (one second on, four seconds off) indicates that power is being directed to your home
- Once power is restored, your GM EV will automatically end the discharge session and begin charging (indicated by the steadily blinking green LED light)

WARNING

To reduce the risk of electric shock or serious injury, do not forcibly remove the GM Charging Coupler from the vehicle.

- If you wish to end the discharge session while the power is out, press the Power Button on the right side of the GM Energy PowerShift Charger to end the session. You can also send a command to end the discharging session through your GM EV’s mobile app or from the GM EV’s dashboard screen. Once the power is off, you can disconnect the Charging Coupler from the GM EV

*The battery reserve default level is 20%. Reserve level adjustments are dependent on your specific GM EV. Consult your GM EV Owner Manual or mobile app for more information.

Troubleshooting

If the Compatible GM EV does not begin to automatically discharge power to your home, try these troubleshooting actions.

- Make sure the Compatible GM EV is properly plugged in
- **Automatic Backup Power** – Once you have identified your home charging location in the vehicle screen or the mobile app, make sure you have enabled Automatic Backup Power on your GM EV by checking your Compatible GM EV’s mobile app (myChevrolet, myBuick, myGMC or myCadillac)
- **Vehicle Battery Reserve Level** – Check your battery reserve level. The system is designed to stop sending power to your home once your GM EV has reached its **range** reserve percentage (the discharge threshold to maintain a minimum charge on your GM EV). Battery reserve level and charging status can be monitored using your Compatible GM EV’s mobile app (myChevrolet, myBuick, myGMC or myCadillac). (Find more information in the [Using Your GM EV’s Mobile App](#) section)
- Check your Compatible GM EV’s mobile app (myChevrolet, myBuick, myGMC or myCadillac) to see if your GM EV has reached the battery reserve level*

NEED-TO-KNOW ACTION ITEMS

Troubleshooting Tips

WARNING

To reduce risk of serious burns, explosion, fire, electric shock or other serious injury, visually inspect the system and its components for any damage before each use. Do not attempt to use any part of the system or fix/alter the components if the system appears physically damaged.

The Power Goes Out – Your GM EV Wasn't Plugged In

The GM Energy Home System is not dependent on your GM EV as a power source. What happens if you arrive home during a power outage and discover that your home is not using backup power? It's possible the GM Energy PowerBank has used up its available stored power. Your Compatible GM EV can be plugged in to discharge power to your home.

- For the first 10 minutes of a power outage, the LED on the GM Energy PowerShift Charger shows a solid white
- Simply plug the Charging Coupler into your Compatible GM EV to connect it to the GM Energy PowerShift Charger
- The white LED should switch to solid blue
- Less than a minute later, the power should come on in your home and the LED will begin slowly blinking green to indicate your GM EV is sending power to your home
- Once power is restored to your home, you will be able to continue charging your GM EV as normal

What if you arrive home, the power is out and the LED light on the GM Energy PowerShift Charger is off?

- Your system is doing what it's supposed to do
- See the next section on how to wake up the system

Waking up the system

- GM Energy PowerBank will provide power to the house until it reaches its off-grid minimum **State of Charge (SoC)**
- Once GM Energy PowerBank hits the off-grid minimum SoC, the house will lose power, and you will need to plug in a Compatible GM EV to restart the backup power session. The GM Energy PowerBank will reserve a small amount of energy to allow the Compatible GM EV to launch communications and provide power to the house
- If it has been more than 10 minutes since the GM Energy PowerBank hit the off-grid minimum SoC, you may need to press the GM Energy PowerBank Wake-Up button on the bottom of the GM Energy Inverter. This allows for the Compatible GM EV to begin communications and provide power to the house

Troubleshooting

- Make sure your Compatible GM EV is plugged in and the GM Energy PowerShift Charger LED light is turned on. If the LED light is not on, you will need to press the GM Energy PowerBank Wake-Up button on the bottom of the GM Energy Inverter
- The Compatible GM EV will begin discharging energy to your home, indicated by a blue light on the GM Energy PowerShift Charger's LED, followed by a slowly blinking green light. (Find more information in the **Decoding the Blinking LED Lights** section)



Note:

If none of these troubleshooting tips resolve issues, contact the GM Energy Customer Support Center.

NEED-TO-KNOW ACTION ITEMS

Troubleshooting Tips

⚠ WARNING

Do not attempt to use any part of the system or fix/alter the components if the system appears physically damaged. Contact the GM Energy Customer Support Center for help at 1-833-64POWER.

Here are some typical scenarios you might encounter, with simple, do-it-yourself fixes to try. Know that you can always contact the GM Energy Customer Support Center for any reason.

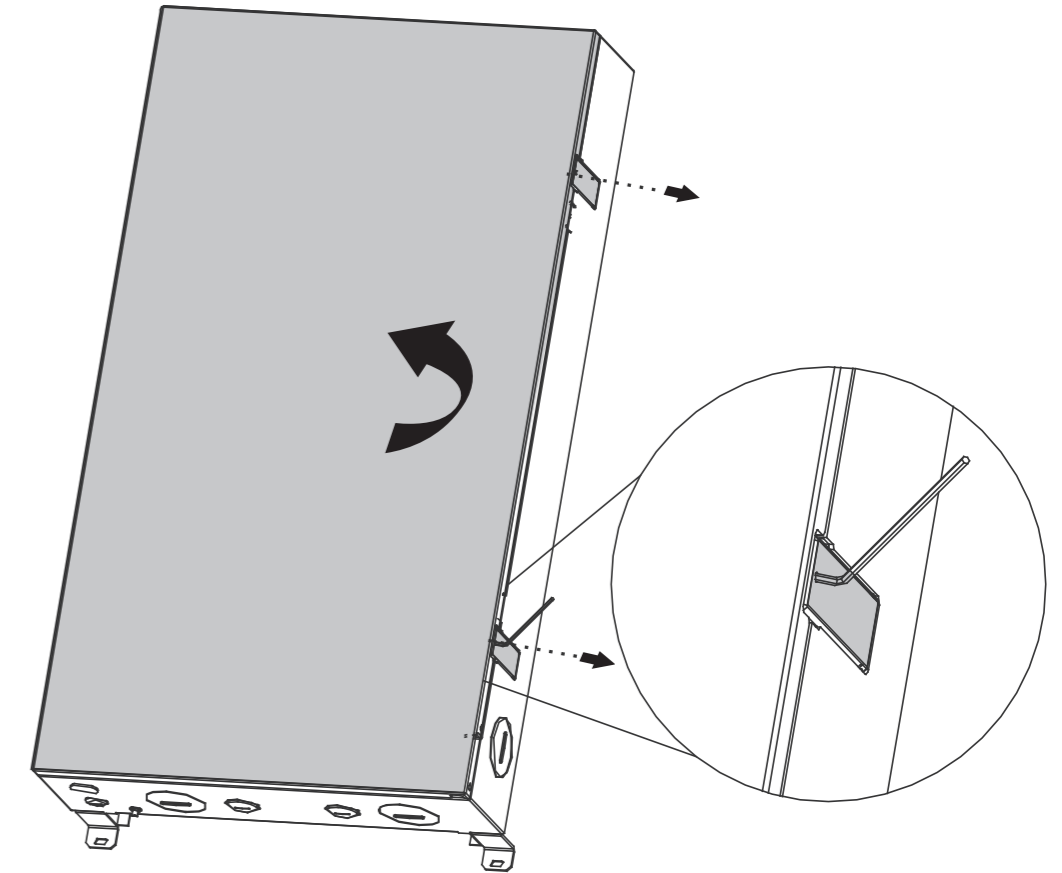
My GM Energy Home System (GM Energy PowerBank or Compatible GM EV) was sending power to my home but then power suddenly kicked off.


- Your GM PowerBank has a preset reserve level after which it will begin discharging power from your Compatible GM EV (if it is charged and plugged into the GM Energy PowerShift Charger)
- Your Compatible GM EV may have reached its preset battery reserve level. Check your mobile app. If this is the case, you can wait for the power to come back. You can also go to an alternate location to charge up your Compatible GM EV and then initiate a new discharge session
- You may have plugged in something that caused a surge in the power draw – such as a compressor, hair dryer or AC unit – which overloaded the system
 - Verify the system is overloaded by looking for a blinking red light on the GM Energy Inverter. This indicates that more power is being drawn than the system can handle. (Find more information in the [Decoding the Blinking LED Lights](#) section)
- The system is designed to restore power automatically and will keep trying to restart in brief intervals (starting at 10 seconds with a 10-second increase with each passing interval). If the power turns on but then kicks back off, try unplugging the appliance most recently used. Or, if you prefer, turn off other devices drawing large amounts of power. The solution is to lower your total power consumption so that the system stays on
- If the session does not start back up automatically when charging your Compatible GM EV, consider unplugging and plugging it in again


My backup power is working, but only some of the circuits or appliances in my home have power.

It is possible that these circuits or appliances are not designed to work during a backup power session. Your installer should communicate which circuits will and will not work during backup power mode. If the circuit should be working during backup mode, it is possible the circuit breaker has tripped.

- If only some appliances don't have power, it could indicate a tripped circuit breaker. Circuit breakers are designed to shut off whenever something tries to draw more power than the wires can safely handle
- Check for tripped circuit breakers on the GM Energy Home Hub or the other electrical panels in your home
- Open the front cover of your GM Energy Home Hub to see if you've tripped a circuit. You may need a 1/8-inch Allen wrench or screwdriver to flip open the two latches securing the cover
- The GM Energy Home Hub has labels inside the cover to tell you what each circuit controls (this was determined by your installer at installation)
- If a circuit breaker has been flipped off, check the label to identify the source of trouble
- Investigate and turn off or unplug anything that could be putting excessive demand on that line
- If your Compatible GM EV is still plugged in, the backup session should restart automatically. If the backup session does not restart, please unplug and plug back in
- You may need to press the Power Button on the GM Energy PowerShift Charger to wake up the system
- If you have tried troubleshooting on your own and still experience issues with your system, contact the GM Energy Customer Support Center for help



 **Note:** Latches on the GM Energy Home Hub door have been fitted with covers; users may remove covers if desired.

 **Note:** If your concern relates to a blinking LED light, see the next section on [Decoding the Blinking LED Lights](#).

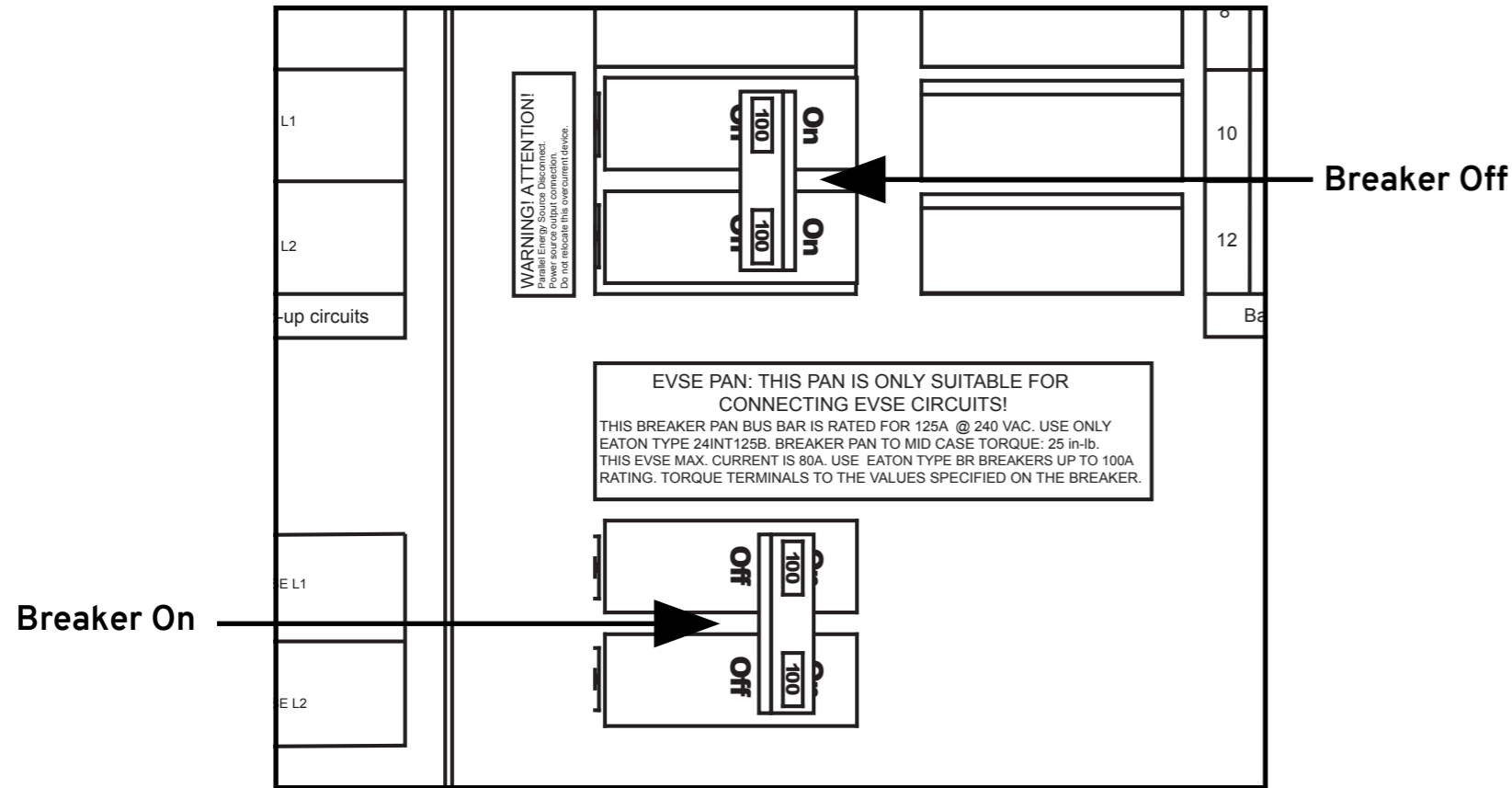
NEED-TO-KNOW ACTION ITEMS

Troubleshooting Tips

My power came back on, but only some of the circuits or appliances in my home have power.

If you still have issues, it's possible that a regular home circuit breaker was tripped (when the home was not in backup mode).

- Check your home's circuit board to reset any tripped circuit breakers
- Turn off any appliances that may be causing an excessive power draw



⚠ WARNING

Intentionally flipping circuit breakers installed in the GM Energy Home Hub to their “on” position with home appliances or loads connected to the breaker could cause a fire, which may result in serious personal injury, loss of life or property damage. Turn off any appliances or devices that are causing excessive draw to return to normal operation.

⚠ CAUTION

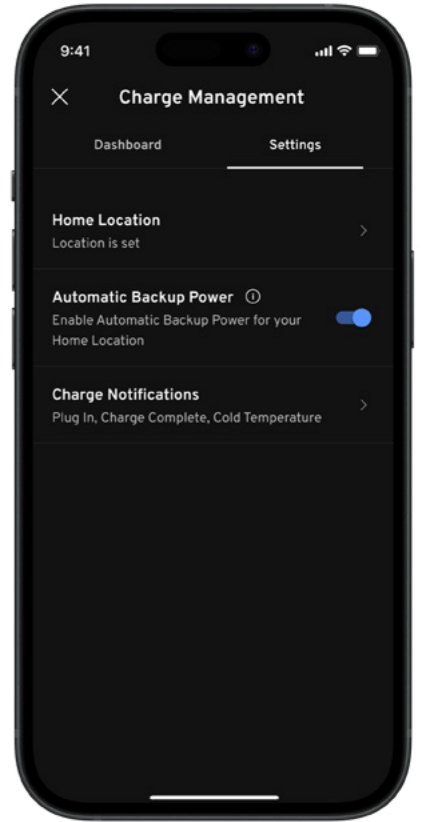
If you have any questions regarding your home's electrical system, contact a professional electrician. If there are any problems with the performance of the GM Energy Home System, contact the GM Energy Customer Support Center for help at 1-833-64POWER.

Actual images and features may vary and are subject to change.

My power is out, and I want to discharge power from my Compatible GM EV to power my home, but it is not starting a backup power session.

- If the GM Energy PowerShift Charger LED light remains solid blue for more than a minute and no session begins, it is likely the vehicle enablement conditions are not met
- Vehicle enablement conditions are: valid SoC above 20% or selected range reserve, Automatic Backup Power enabled in app, home location set and vehicle is at home location

If you have met all vehicle enablement conditions and the backup power session still hasn't started, it is possible your Compatible GM EV is not registering its home location properly. Ensure your mobile app shows Home in the charge management section.

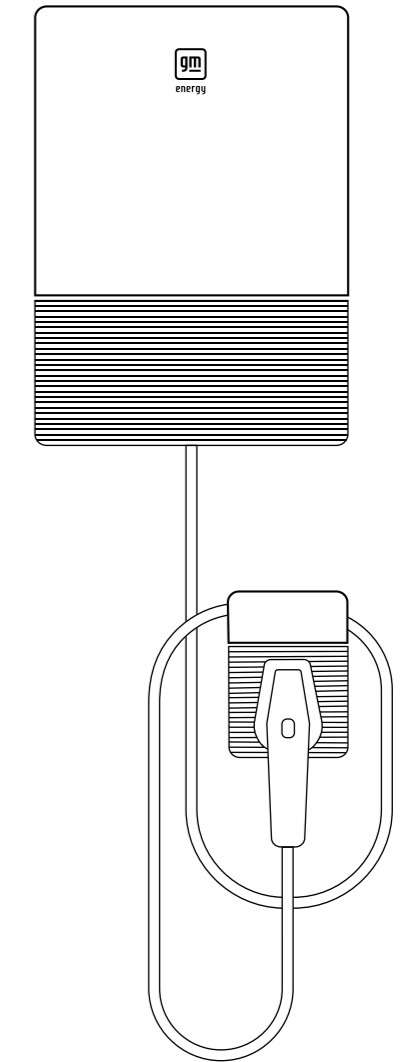




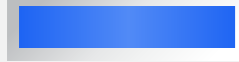


NEED-TO-KNOW ACTION ITEMS

Decoding the Blinking LED Lights

The GM Energy PowerShift Charger, GM Energy Inverter and GM Energy PowerBank feature LED indicators that signal the system's charge status.

GM Energy PowerShift Charger



GM Energy PowerShift Charger LED Indicator			
Color	Behavior	Definition	Recommended Action
 White*	Blinking	Charger is resetting	No action required
	Solid	Charger is ready but GM EV is not plugged in	Plug in GM EV
 Green	Steadily Blinking (1 second on, 1 second off)	GM EV is actively charging	No action required
	Slowly Blinking (1 second on, 4 seconds off)	Compatible GM EV is actively discharging power to the home	No action required
	Solid	Compatible GM EV is plugged in but not actively charging or discharging	No action required. (Leave Compatible GM EV plugged in until you need to drive, so that it's ready in case of a power outage)
 Blue	Solid	Bidirectional charging system is in process of switching from charging to discharging session	No action required
 Yellow	Blinking	OTA (over-the-air) software update is in progress	No action required
 Red	Blinking	Charger error	Check your Compatible GM EV's mobile app (myChevrolet, myBuick, myGMC or myCadillac) for further descriptions. Attempt to unplug and plug in the charging coupler again. If issue persists, or if physical damage is noticeable to the system, please contact the GM Energy Customer Support Center before proceeding
	Solid	Installation incomplete	Contact installer

WARNING

A red LED light indicates an error or issue that may cause a hazardous situation.

To reduce the risk of serious burns, explosion, fire, electric shock or other serious injury, do not attempt to open any equipment or fix/alter any components, and follow the recommended action noted.







Note:

If the LED Indicator on the GM Energy PowerShift Charger is completely off, the system is not receiving power (it is in Deep Sleep Mode).

*The white LED may appear slightly light blue under certain lighting conditions.

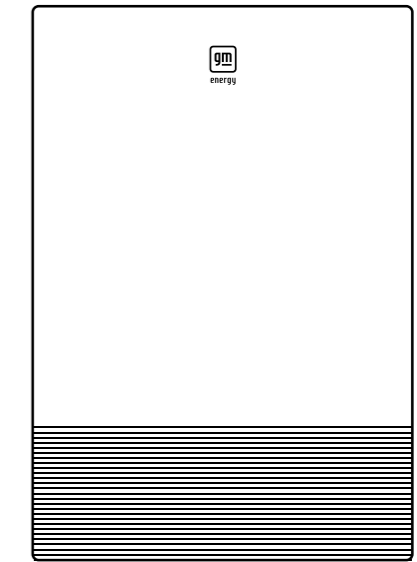
NEED-TO-KNOW ACTION ITEMS

Decoding the Blinking LED Lights

GM Energy Inverter LED Indicator			
Color	Behavior	Definition	Recommended Action
 White*	Steadily Blinking (1 second on, 1 second off)	OTA (over-the-air) software update is in progress	No action required
	Slowly Blinking (1 second on, 4 seconds off)	Deep Sleep Mode	Press the GM Energy PowerBank Wake-Up Button to reinitialize system
	Solid	GM Energy Inverter is initializing after a reset	No action required
 Green	Steadily Blinking (1 second on, 1 second off)	A charge or discharge session is starting up	No action required
	Slowly Blinking (1 second on, 4 seconds off)	Idle/standby	No action required
	Solid	Normal operation – the system is converting power	No action required
 Yellow	Steadily Blinking (1 second on, 1 second off)	Battery fault mode (GM Energy PowerBank or GM Energy Dark Start Battery)	Try pressing the red button at the bottom of the GM Energy Inverter. If the light remains yellow, contact the GM Energy Customer Support Center
	Slowly Blinking (1 second on, 4 seconds off)	GM Energy Inverter warning	Contact the GM Energy Customer Support Center
	Solid	Equipment alarm	Contact the GM Energy Customer Support Center
 Red	Irregular Blinking (0.5 seconds on, 0.5 seconds off, 2 seconds on, 0.5 seconds off)	Over current protection fault – more power is being drawn than the system can handle (such as by an AC unit, welding kit, etc.)	Try turning off appliances and devices to lower your current energy consumption. The backup power session should restart automatically. If the session does not start back up automatically, consider unplugging and plugging in the Compatible GM EV again
	Rapid Blinking	Ground fault – indicates a possible wiring issue	Contact the GM Energy Customer Support Center
	Solid	Arc fault – indicates a possible wiring issue	Contact the GM Energy Customer Support Center

*The white LED may appear slightly light blue under certain lighting conditions.

GM Energy Inverter



WARNING

A red LED light indicates an error or issue that may cause a hazardous situation.

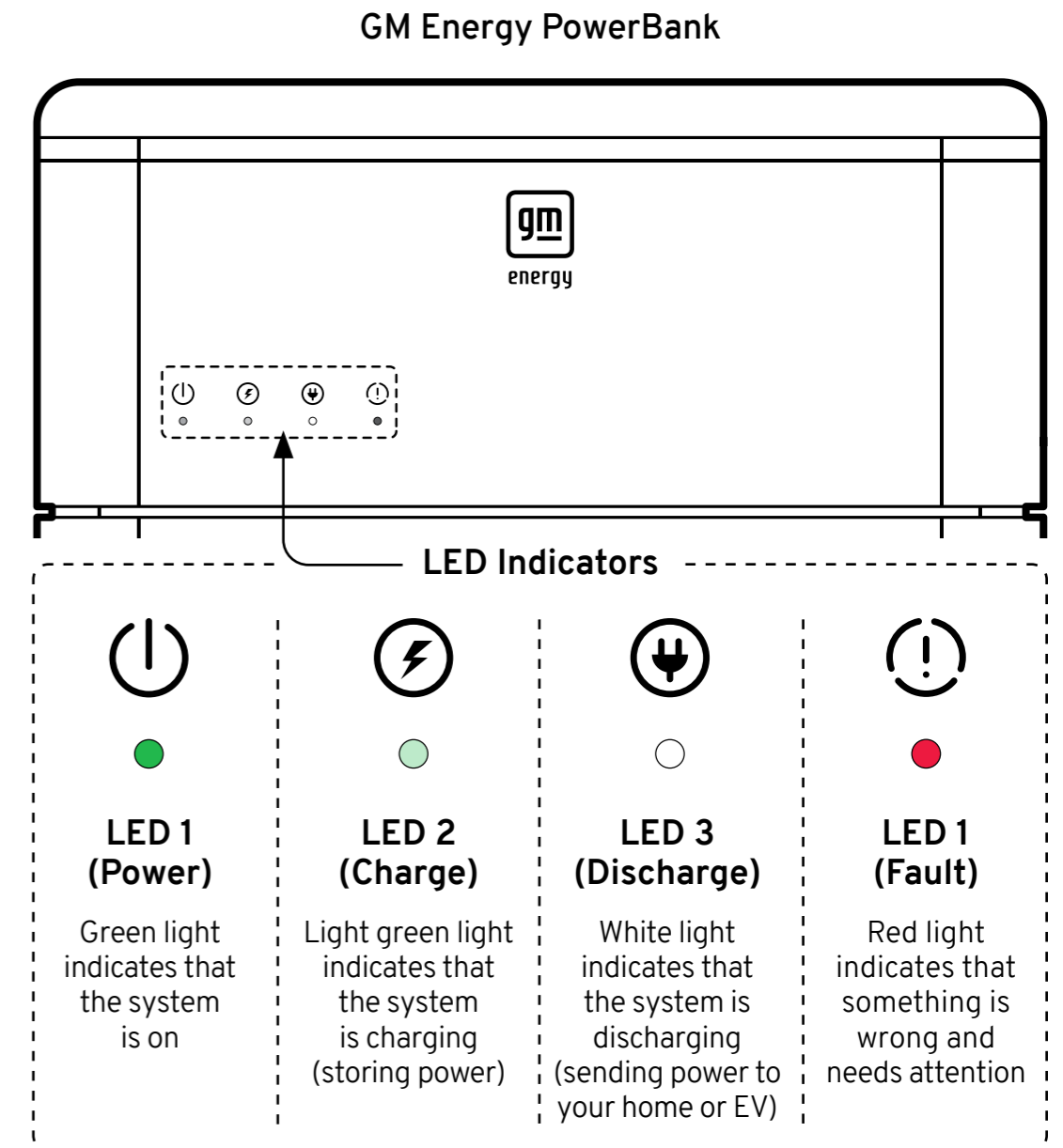
To reduce the risk of serious burns, explosion, fire, electric shock or other serious injury, do not attempt to open any equipment or fix/alter any components, and follow the recommended action noted.

NEED-TO-KNOW ACTION ITEMS

Decoding the Blinking LED Lights

The top-most section of the GM Energy PowerBank is called the Battery Control Unit (BCU). It features four LED indicators with symbols that help you monitor its status.

GM Energy PowerBank LED Indicators		LED 1 (Power)	LED 2 (Charge)	LED 3 (Discharge)	LED 4 (Fault)
Power on (Max. 14 seconds)					
Normal	Ready				
	Charge				
	Discharge				
	Fault 1				
	Fault 2				
	Power-Saving				
OTA/Software Update	Updating				
	Update Complete				
	Update Failed				



⚠ WARNING

A red LED light indicates an error or issue that may cause a hazardous situation.

To reduce the risk of serious burns, explosion, fire, electric shock or other serious injury, do not attempt to open any equipment or fix/alter any components, and contact the GM Energy Customer Support Center.

USING YOUR GM EV'S MOBILE APP

Built into your vehicle's mobile app (myChevrolet, myBuick, myGMC or myCadillac)* is a dedicated interface between you and your GM Energy Home System. After your GM Energy Home System is installed and commissioned by your installer, you will need to download the app and complete the setup.



Note:

“Commissioned” refers to the step in the installation process that turns the system on, updates system settings and connects the system to your Wi-Fi network. After installation, it's recommended that your system is connected and commissioned with a secure Wi-Fi network. Final approval to operate may be dependent on inspections by local jurisdiction representatives.

Click on your brand icon to download the app now! →



First-Time Setup

- If you haven't already, download your vehicle's mobile app (myChevrolet, myBuick, myGMC or myCadillac) and log in to the system using the account used to purchase your GM Energy Home System
- A link for your GM Energy Home System should appear on the app's home page (next to your vehicle) within 24 hours of **commissioning**
 - If you don't see a link, you can register your system by tapping the “Add Product” link on your account page and selecting your home energy product from the list
- Follow instructions on the app to register your system and connect to your home network and complete the guided setup
- Your GM Energy Home System password can be found in your GM Energy Home Hub Quick Installation Guide. If misplaced, the password is available by calling the GM Energy Customer Support Center
- If your hardware does not show up in your phone network settings, please reboot the system by pressing the Power Button on your charger for 10 seconds

Enabling Automatic Backup Power From Your EV

- You can enable Automatic Backup Power for your Compatible GM EV by navigating to your GM EV Dashboard, selecting Charge Management and reviewing your Home Location Settings. Charge Management for your GM EV can also be accessed from your Home Energy Dashboard

Why You Need the App

This app is your essential connection to the GM Energy Home System, providing a dashboard for the current status of all related charging systems and components. You can use the app to:

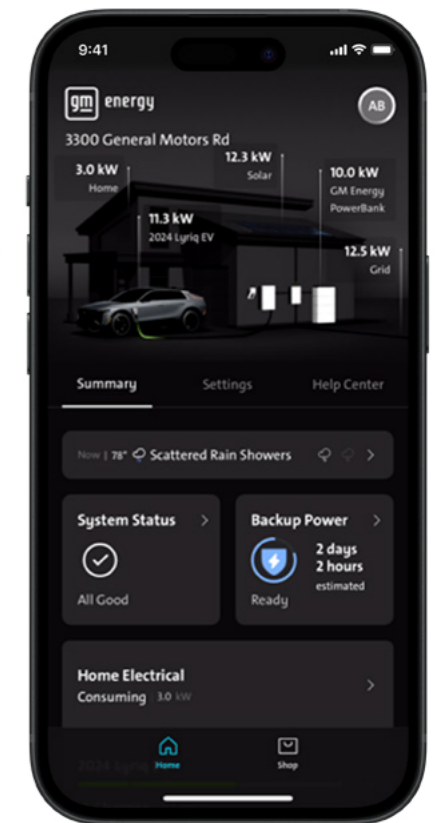
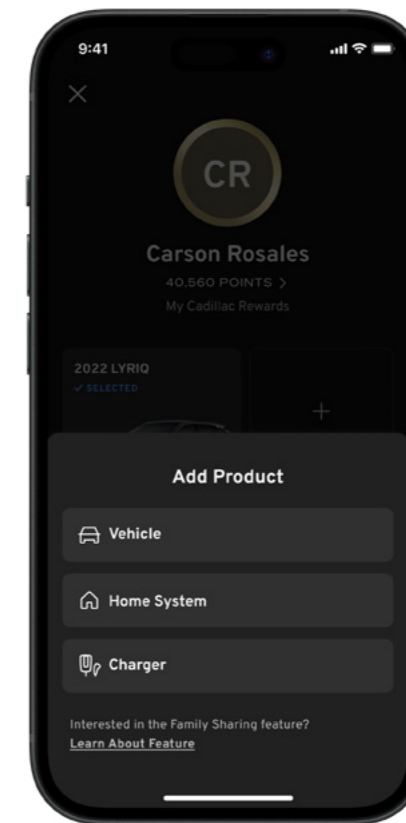
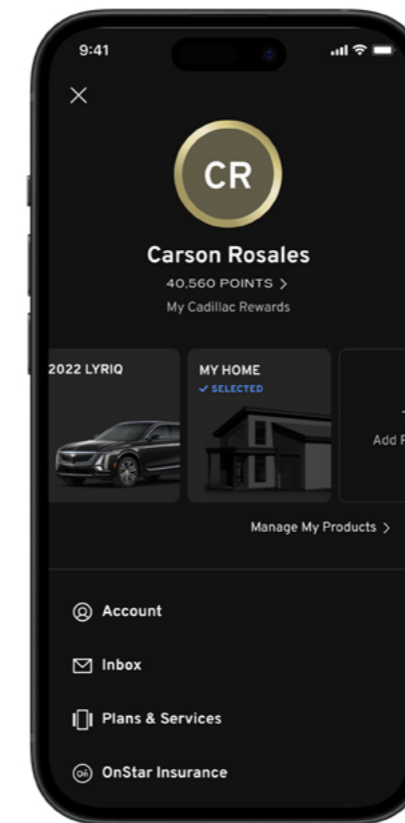
- Confirm that Automatic Backup Power is enabled
- View the status of your GM Energy PowerBank charging system
- Set your charge status to take advantage of peak and off-peak charging hours to help save on energy costs. The system will automatically optimize charging based on your input
- View the status of your GM EV's vehicle-to-home charging system
- See your estimated backup time if a power outage were to occur**
- See real-time charge and discharge power and home load consumption
- Review all of this real-time data when you are away from home or away from your GM EV, using user-friendly widgets that help you plan accordingly
- Configure wireless network settings

To take full advantage of this robust app, open it up and familiarize yourself with its many feature benefits.



Note:

For unique installations, your grid power reading in your app may not represent your total power imported from the grid. Check with your installer to confirm metering placement.



*Available on select Apple and Android devices. Service availability, features and functionality vary by vehicle, device and the plan you are enrolled in. Terms apply. Device data connection required. Actual images and features may vary and are subject to change.
**Weather conditions, life of the battery, energy efficiency of appliances and other external factors may impact the duration of time. Results may vary. Length of time may vary depending on energy usage.

USING YOUR GM EV'S MOBILE APP

GM Energy PowerBank Operation Modes

Control is at your fingertips with the GM Energy PowerBank. Whether your component is equipped with compatible solar panels or not, you have a variety of energy-managing operation modes to choose from. Adjust your operation modes and settings using your vehicle's mobile app.

To access the Operational Mode settings, open the mobile app to the Home Energy Dashboard. Scroll and select the GM Energy PowerBank tile. From there, click settings, then open the Operational Mode page.

My GM Energy PowerBank does not have solar panels

Even without solar panels, the GM Energy PowerBank has two operation modes.

1. **Backup Only:** Have peace of mind when your power goes out. Backup Only mode will fully charge your GM Energy PowerBank, storing energy to use in the event of an outage
2. **Time of Use Discharge:** Help save on energy costs by charging your GM Energy PowerBank during off-peak times and discharging when prices are high

My GM Energy PowerBank does have solar panels

When the GM Energy PowerBank is equipped with compatible solar panels, you have three operation modes to choose from.

1. **Backup Only:** Have peace of mind when your power goes out. Backup Only mode will fully charge your GM Energy PowerBank, storing energy to use in the event of an outage
2. **Time of Use Discharge:** Help save on energy costs by charging your GM Energy PowerBank during off-peak times and discharging when prices are high
3. **Self-Consumption:** Reduce your grid power consumption by charging your GM Energy PowerBank from compatible solar panels only, which can power your home even when the sun isn't shining. This mode requires your system to have solar integration

Additional settings

- **Battery Reserve:** Select the **State of Charge (SoC)** you want to reserve for use during a power outage. The GM Energy PowerBank will not discharge below this value except during an outage
- **Allow Grid Export:** Turn this on to allow power from your GM Energy PowerBank to export to the grid. Turn this off to only send power from the GM Energy PowerBank to your home
- **Charge Battery From Grid:** Turn this on to allow your GM Energy PowerBank to charge from the grid as well as solar panels. Turn this off to charge the GM Energy PowerBank with solar power only



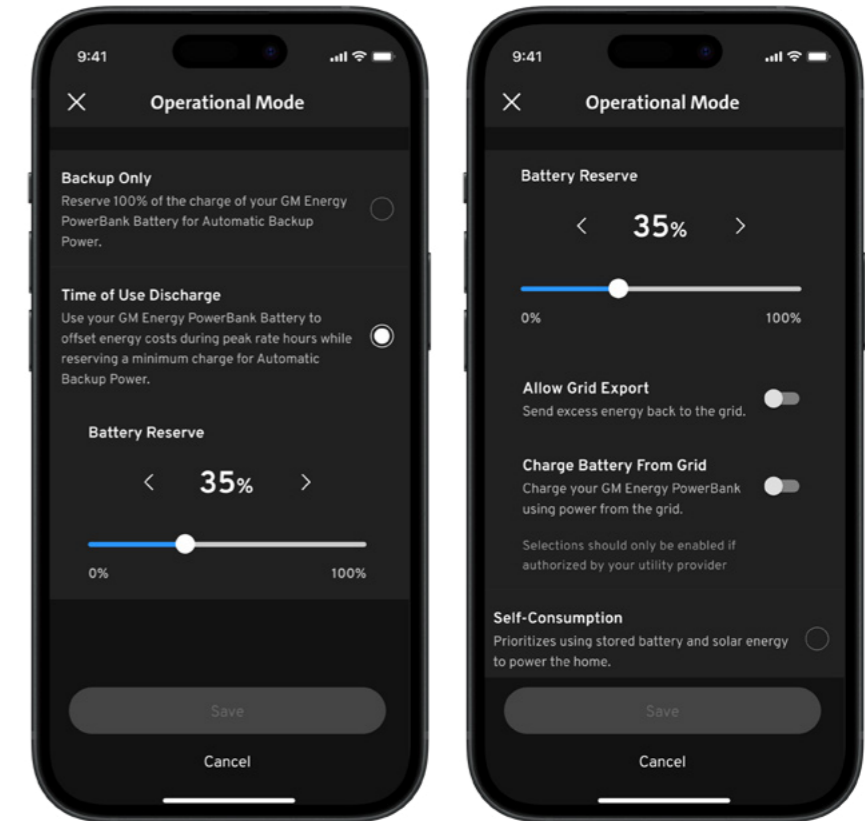
Note:

There may be power or mode limitations for your GM Energy PowerBank based on your specific setup. These limitations are set at commissioning based on your utility and other factors. Please refer to your installer or support center for any questions about these limitations.



Note:

The GM Energy Inverter may reserve up to 10% State of Charge (SOC) of GM Energy PowerBank units to ensure proper system operation.




Actual images and features may vary and are subject to change.

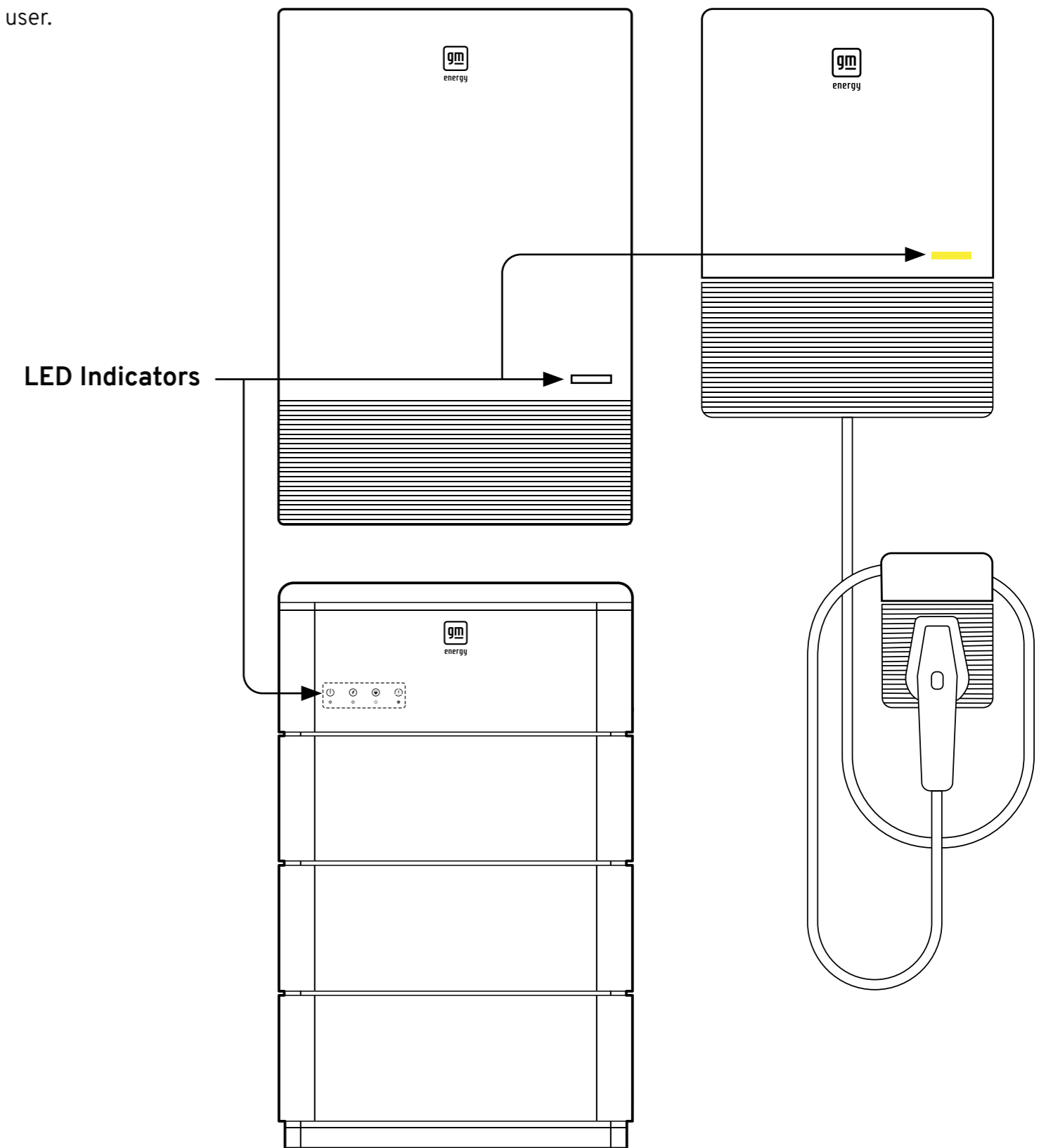
OVER-THE-AIR UPDATES (OTA)

The GM Energy Home System is designed to install software updates automatically, using wireless technology so as not to inconvenience the user. After the update is finished, the system will reboot. Depending on the type of update, the lights in the home may flicker briefly.

An OTA update:

- Is designed to work over the life of the system to improve features and fix minor bugs
- Is indicated by a yellow LED light on the GM Energy PowerShift Charger specifically for your Compatible GM EV
 - The LED indicators will return to a solid green light (if the GM EV is plugged in) when the download is complete
- Is indicated by a blinking white LED light on the GM Energy Inverter
 - The LED indicators will return to a solid green light when the download is complete
- Is indicated by a blinking green light under the power symbol on the GM Energy PowerBank
 - The LED indicators will light up under the power, charge and discharge symbols when the download is complete. (Find more information in the [Decoding the Blinking LED Lights](#) section)
- Triggers a notification in your vehicle's mobile app (myChevrolet, myBuick, myGMC or myCadillac) that an update is in progress

 **Note:** If LED indicators do not return to normal after two hours, please contact the GM Energy Customer Support Center.



CARE AND MAINTENANCE

The GM Energy Home System does not require any scheduled maintenance. However, make sure its components remain free from debris, ice or snow to optimize product longevity.

Common Questions

To enhance your GM Energy ownership experience, we have collected commonly asked questions to help with the care and use of a solar-connected system.

If the system shuts down during a grid outage, how can I manually turn the system back on?

- If the system stops responding after a grid outage, use the GM Energy PowerBank Wake-Up button to restart the system. See [Waking up the system](#) in the [Need-To-Know Action Items](#) section for more information

Can solar panels provide power during a blackout, and do I need a battery for backup?

- Solar panels alone may not provide power during a blackout. However, compatible solar panels can provide backup power to the home during outages, as long as the GM Energy PowerBank and/or Compatible GM EV are also providing power to the home. This ensures your home and energy storage capabilities remain functional for a period of time



Note:

The GM Energy Home System cannot charge your EV during a power outage at this time.

Do solar panels work in cloudy or rainy weather, and what happens at night or on cloudy days?

- Solar panels still generate electricity on cloudy or rainy days, though at reduced efficiency. At night or during periods of low sunlight, your home will use electricity from the grid unless you have a battery storage system like the GM Energy Home System
- Batteries like the GM Energy PowerBank can store excess solar energy generated during the day for use at night or during cloudy periods

Why does my GM Energy PowerBank not appear to be charging/discharging?

- Your GM Energy PowerBank will optimize energy consumption depending on the electrical rates selected and the mode enabled. This is why it's important to ensure you have input the proper electric utility rates on your vehicle's mobile app
- The GM Energy Customer Support Center can help investigate any further anomalies or concerns

Helpful Resources

Call the GM Energy Customer Support Center at 1-833-64POWER.

- Monday – Friday: 8 a.m. – midnight ET
- Saturday – Sunday: Noon – 9 p.m. ET
- Outside business hours, customers can leave a voicemail or contact the support team via email at energyservice@gm.com

The GM Energy website is always available at

<https://gmenergy.com/for-home/resources-and-support>

For issues specific to your GM EV, refer to:

- myChevrolet app
- myBuick app
- myGMC app
- myCadillac app
- Vehicle User Manual

GM ENERGY HOME PRODUCTS LIMITED WARRANTY

GM Energy provides a Limited Warranty for GM Energy Home Products, which are subject to certain terms, limitations and exclusions. Please visit <https://gmenergy.gm.com/for-home/here-to-help> for more information on the GM Energy Home Products Limited Warranty.

GLOSSARY

Frequently Used Terms and Acronyms

This glossary is a quick-reference guide to terms you may encounter in this guide, while talking to a provider or referencing other GM Energy resources.

Alternating Current (AC) – An electric current that alternates direction at regular intervals. Homes run on AC power

Amp (A) – Short for ampere, a unit used to measure electric current (i.e., how fast an electric current flows). Usually used in the context of EV charging (e.g., a 50-amp EV charger)

Automatic Backup Power – A setting found on your Compatible GM EV’s mobile app (myChevrolet, myBuick, myGMC or myCadillac); it must be enabled (switched on) in order for a GM EV to discharge power to a home using the GM Energy V2H Bundle

Battery Control Unit (BCU) – A device integral to the GM Energy PowerBank that manages the charging and discharging of the lithium-ion batteries. In the GM Energy PowerBank, the BCU is the top-most part of the stack (where you’ll find the LED indicators). The BCU regulates the voltage and current going into the GM Energy PowerBank to prevent overcharging and also monitors the temperature of the battery to prevent overheating

Battery electric vehicle (BEV) – A vehicle powered purely by a high-voltage battery. There is no gasoline engine and, therefore, zero tailpipe emissions

Battery Module – An assembly of multiple battery cells to create larger storage capacity. In the GM Energy PowerBank, the battery module is comprised of the units below the BCU

BDI – Abbreviation for bidirectional inverter, referred to here as the GM Energy Inverter. This is a component in the GM Energy V2H Bundle that makes Vehicle-to-Home (V2H) charging possible

Bidirectional – Refers to the ability of an inverter to direct power two ways – that is, from the power grid to the Compatible General Motors Electric Vehicle (EV) or from the GM EV to the home (V2H). This only works on Compatible GM EVs equipped with bidirectional technology

Charging – Replenishing an EV battery or GM Energy PowerBank with electricity from an external source

Charging Coupler – The device attached to the cord that connects the GM Energy PowerShift Charger to a GM EV. Might also be referred to as a charging outlet or charging plug. It functions much like the hose and nozzle on a conventional fuel pump (In technical documents, this may be referred to as a CCS, which indicates it is a standard Combined Charging System)

Charging Holster – The wall-mounted unit that holds the Charging Coupler when it is not in use, included with the GM Energy PowerShift Charger

Charging Session Duration – Generally refers to the amount of time it takes for an EV to be fully charged, starting from the moment it is plugged into an EV charging station until the charging process is completed

Combined Charging System (CCS) – This configuration on the Charging Coupler enables DC fast charging capability

Compatible GM EV – A GM electric vehicle that is equipped with discharging capability. For compatibility details, refer to the [GM Energy website](#)

Commissioning – The step in the install process that turns the system on, updates system settings and connects the system to your wireless network. Final approval to operate may be dependent on inspections by local jurisdiction representatives

Direct Current (DC) – An electric current flowing in a single direction. EV batteries and GM Energy PowerBank systems store energy as DC power

Electric Vehicle Supply Equipment (EVSE) – Any equipment, such as a wall-mounted charger or a portable cord set, used to charge an EV. The GM Energy PowerShift Charger is an EVSE

GM Energy – An ecosystem of energy management products and services for home, commercial and GM EV customers offering a network of charging stations, dedicated back-up home power and a suite of new products to help create a more resilient grid

GM EV – A General Motors electric vehicle

GM Energy Dark Start Battery – Originally included as part of the GM Energy V2H Bundle, this component is no longer required with systems upgraded to include the GM PowerBank. It will not interfere with functionality of the upgraded system and can be left or removed

GM Energy Home Hub – The Microgrid Interconnect Device that acts like your home’s electrical panel and circuit breakers to manage and distribute electricity from your GM Energy PowerBank (grid or solar panels) or GM EV to predetermined points in your home

GM Energy Inverter – The unit that converts direct current (DC) to alternating current (AC) and controls how much power is being drawn from multiple sources and redirected. It is designed to intelligently manage multiple sources of off-grid power, such as from the GM Energy PowerBank or compatible solar panels. In some technical documents, it may be referred to as a BDI (Bidirectional Inverter)

GM Energy PowerBank – The unit that captures and stores energy to power your home during an outage or to charge your Compatible GM EV. This component is a part of the GM Energy Home System

GM Energy PowerShift Charger – The wall-mounted unit that delivers bidirectional charging to your Compatible GM EV and, in the event of a power outage, to your properly equipped home. It is part of the GM Energy Home System. In technical documents, it might be referred to as the Electric Vehicle Supply Equipment (EVSE)

GLOSSARY

Frequently Used Terms and Acronyms Continued

ISC – Short Circuit Current

Kilowatt (kW) – A measurement of power (1 kW = 1,000 watts)

Kilowatt-hour (kWh) – A measurement of energy – how much power (kilowatts) can be supplied over a period of time (hours). This stored energy can be used/consumed at different rates. For example, 50 kWh stored in a battery could deliver:

- 2 hours of 25 kW power
- 5 hours of 10 kW power
- 50 hours of 1 kW power

Level 1 charging – The type of charging usually done at home because it uses a typical 120-volt electrical outlet, charging between 8 amps and 20 amps. Level 1 charging is typically done with a portable charging cord

Level 2 charging – Often needs to be professionally installed and can deliver faster charging times than Level 1 chargers, charging up to 80 amps. Your GM Energy Home System provides Level 2 charging

Managed charging – Active control of how/when electricity for an EV is replenished via a power source that must also meet other power needs (i.e., demand response)

MID (Microgrid Interconnect Device) – The technical term for the GM Energy Home Hub device that's part of the GM Energy V2H Bundle

NEC – Abbreviation for the National Electrical Code. This refers to the United States standard for the safe installation of electrical wiring and equipment

OTA – Abbreviation for “Over-the-Air” software installation, the wireless technology that allows a system to automatically download software updates

PE – Abbreviation for “protective earth,” it refers to the protective grounding wire used in electric systems and cables. It may also be referred to as a protective grounding device, soil, grounding or simply as the ground wire

Photovoltaic (PV) Cells – The technical term used for the devices in solar panels that convert sunlight into electricity

Range – The total distance an EV can travel on one full charge before the battery needs to be recharged

Rapid Shutdown Device (RSD) – To protect fire fighters and other first responders, an RSD quickly de-energizes (shuts off voltage in) auxiliary power systems, such as solar panels. Your installer will advise you regarding your system's needs

Solar Panels – Refers to devices that convert sunlight into electricity by using photovoltaic (PV) cells. The GM Energy Home System is designed to work with compatible solar panels to store and distribute this renewable energy source

State of charge (SoC) – The amount of electricity available in a battery. With the GM Energy PowerBank, you can select the minimum State of Charge you want to reserve for your system in the event of an outage using your vehicle's mobile app

Vehicle Battery Reserve Level – The discharge threshold on your Compatible GM EV's battery that's required to maintain a minimum charge. When this is reached, the system will stop sending power to your home. Battery reserve level can be monitored using your GM EV's mobile app (myChevrolet, myBuick, myGMC or myCadillac)

Vehicle Grid Integration (VGI) – The passive and active management of electricity to and from Compatible GM EVs

Vehicle-to-Grid (V2G) – Allows the flow of electricity to and from the vehicle battery to support the electrical grid

Vehicle-to-Home (V2H) – Allows the flow of electricity from the vehicle battery to the home while disconnected from the grid during a power outage

Volt (V) – A measure of the electromotive force that drives electrons through a circuit. Homes in the U.S. run on 120 volts (regular outlets) and 240 volts (higher-powered outlets)

Watt (W) – The basic measurement of power (1 kW = 1,000 watts)