

Owner's Manual

Generac PWRmanager™ 12 Relay Load Controller



https://pwrfleet.generac.com

1-888-GENERAC (888-436-3722)

Para español, visita: <u>http://www.generac.com/service-support/product-support-lookup</u> Pour le français, visiter: <u>http://www.generac.com/service-support/product-support-lookup</u>

SAVE THIS MANUAL FOR FUTURE REFERENCE

Use this page to record important information about your Generac Product

Record the information found on your unit data label on this page. See Serial Number Location.

When contacting an Independent Authorized Service Dealer (IASD) or Generac Customer Service, always supply the complete model number and serial number of the unit.

Unit Model Number	
Unit Serial Number	
Date Purchased	
Commissioning Date	

Table 1: PWRmanager™ Important Information

WARNING

CANCER AND REPRODUCTIVE HARM

www.P65Warnings.ca.gov.

(000393a)

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Section 1: Safety Rules & General Information

Introduction

Thank you for purchasing a Generac PWRmanager™. You now have innovative control over your electrical panel and the ability to automatically shed loads during an outage to help ensure your PWRcell[®] system lasts throughout the outage.

The information in this manual is accurate based on products produced at the time of publication. The manufacturer reserves the right to make technical updates, corrections, and product revisions at any time without notice.

Read This Manual Thoroughly



AWARNING

Consult Manual. Read and understand manual completely before using product. Failure to completely understand manual and product could result in death or serious injury. (000100a)

If any section of this manual is not understood, contact the nearest Independent Authorized Service Dealer (IASD) or Generac Customer Service at 1-888-436-3722 (1-888-GENERAC), or visit *www.generac.com* for starting, operating, and servicing procedures. The owner is responsible for safe use of the unit.

SAVE THESE INSTRUCTIONS for future reference. This manual contains important instructions that must be followed during operation of the unit. Always supply this manual to any individual that will use this unit.

Safety Rules

The manufacturer cannot anticipate every possible circumstance that might involve a hazard. The alerts in this manual, and on tags and decals affixed to the unit, are not all inclusive. If using a procedure, work method, or operating technique that the manufacturer does not specifically recommend, verify that it is safe for others and does not render the equipment unsafe.

Throughout this publication, and on tags and decals affixed to the unit, DANGER, WARNING, CAUTION, and NOTE blocks are used to alert personnel to special instructions about a particular operation that may be hazardous if performed incorrectly or carelessly. Observe them carefully. Alert definitions are as follows:

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

(000001)

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

(000002)

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

(000003)

NOTE: Notes contain additional information important to a procedure and will be found within the regular text of this manual.

These safety alerts cannot eliminate the hazards that they indicate. Common sense and strict compliance with the special instructions while performing the action or service are essential to preventing accidents.

How to Obtain Service

When the unit requires servicing or repairs, contact Generac Customer Service at 1-888-GENERAC (1-888-436-3722) or visit *www.generac.com* for assistance.

When contacting Generac Customer Service about parts and service, always supply the complete model and serial number of the unit as given on its data decal located on the unit. Record the model and serial numbers in the spaces provided on the front cover of this manual.

General Hazards



Electrocution. Do not wear jewelry while working on this equipment. Doing so will result in death or serious injury.

(000188)

Risk of Injury. Do not operate or service this equipment if not fully alert. Fatigue can impair the ability to operate or service this equipment and could result in death or serious injury.

(000747)



AWARNING

Loss of life. This product is not intended to be used in a critical life support application. Failure to adhere to this warning could result in death or serious injury. (000209b)

Electric shock. Only a trained and licensed electrician should perform wiring and connections to unit. Failure to follow proper installation requirements could result in death, serious injury, and equipment or property damage.

(000155a)

Equipment damage. Only qualified service personnel may install, operate, and maintain this equipment. Failure to follow proper installation requirements could result in death, serious injury, and equipment or property damage. (000182a)

- Only competent, gualified personnel should install, operate, and service this equipment. Strictly comply to local, state, and national electrical and building codes. When using this equipment, comply with regulations established by the National Electrical Code (NEC), CSA Standard; the Occupational Safety and Health Administration (OSHA), or the local agency for workplace health and safety.
- Protection against lightning surges in accordance with local electric codes is the responsibility of the installer.

NOTE: Lightning damage is not covered by warranty.

- Never work on this equipment while physically or mentally fatigued.
- Any voltage measurements should be performed with a meter that meets UL3111 safety standards, and meets or exceeds overvoltage class CAT III.

Electrical Hazards



Electrocution. Water contact with a power source, if not avoided, will result in death or serious injury.

(000104)



A DANGER

Electrocution. In the event of electrical accident, immediately shut power OFF. Use non-conductive implements to free victim from live conductor. Apply first aid and get medical help. Failure to do so will result in death or serious injury. (000145)



DANGER

Electrocution. Verify electrical system is properly grounded before applying power. Failure to do so will result in death or serious injury.

(000152)

Electrocution. PWRmanager Touch-Safe cover should be removed by a qualified technician only. Removing the Touch-Safe cover could result in death, serious injury, or equipment or property damage.

(000745a)

Section 2: General Information

About PWRmanager

PWRmanager is an advanced load management device incorporated into a single compact panel. It can monitor and control up to twelve (12) 60 A circuits, and control two additional HVAC equipment circuits via thermostat demand interruption.

PWRmanager supports economical whole home backup. By shedding loads during backup, the entire home can be backed up rather than the limited circuits normally available in a protected loads panel.

PWRmanager provides flexibility. Monitor loads and switch loads on or off from the Generac PWRview App.

During an outage, use the PWRview App to switch managed appliances on or off.

PWRmanager automatically sheds managed loads, as needed, to prevent system overload.

Advanced Load Management

Load management systems are designed to prevent a standby power source, such as an energy storage system, from being overloaded while providing backup power during an outage. The PWRmanager advanced load management system also provides an in-hand ability to turn circuits on or off during an outage, or even while on grid.

PWRmanager provides a richly integrated load management functionality when used with the PWRcell system.

Whole Home Backup

With whole home backup, during an outage, the main breaker panel will be disconnected from the utility and powered by the inverter. To avoid overloading the inverter, PWRmanager monitors the power lines and turns managed loads off automatically before shut down. This keeps the inverter operating and the important loads powered.

Circuits and Relays

The installer will wire and configure two-pole circuits using two relays for loads like dryers, EV Chargers and Air Conditioners. Other circuits will be controlled by one relay for 110 Volt loads.

Status Console



Figure 2-1. Status Console

А	A Status LED Indicates operational state of the unit. It can be seen from the front when the lic closed.	
В	Relay LEDs	Indicates the status of the individual relays.
С	Relay Pairing LEDs	Lit to indicate relays paired together for 2 pole circuits.
D	WiFi / Ethernet Status LED	Indicates status of the WiFi connection and/or Ethernet, if installed.
E	WiFi Broadcast Button	Press this button to trigger local WiFi AP mode.
F	Reset Button	Press to reset the unit.
G	Grid State LED	Indicates whether the grid is present, or the system is islanding.
н	Mode Selector Knob	Selects to force all relays on, all relays off, or allow normal operation. Keep in normal position at all times.

LED Status

	Status LED	Off	No power is available to the unit.
		Red	Relay or unit is not operating normally. See <i>Troubleshooting</i> for more information.
А		Flashing Orange	Mode Selector Knob is not in normal position.
		Blue	Unit is powered by the PWRcell system and no issues are detected.
		Green	Unit is powered by the grid and no issues are detected.
		Off	Relay is open.
В	Relay LEDs	Green	Relay is closed (load is enabled).
		Red	Relay is not operating normally and remained in its last state (closed or open). See <i>Troubleshooting</i> for more information.
	Relay Pairing LEDs	Off	Relays not paired.
С		Green	Relays are paired as 240 V circuit.
		Red	Relays are paired, but at least one relay is not operating normally. See <i>Troubleshooting</i> for more information.
		Green	Connected to Generac server.
	WiFi / Ethernet Status LED	Blue	Unit is either connected to the Internet using local WiFi or Ethernet connection, but it is not connected to the Generac server.
D		Flashing Blue	Connecting to local router via WiFi.
		Red	Unable to connect to local router or Internet.
		Flashing Green	Access Point (AP) mode broadcasting.
	Grid State LED	Green	Grid power is available. Unit is powered by grid.
G		Blue	Grid power is not available. Unit is powered by PWRcell system.
		Orange	Grid status is unknown.

Section 3: Operation

Before using the PWRview app to manage circuits, the PWRmanager must be wired, configured, and registered by the installer.

Download the Generac PWRview app from Google Play or the Apple App Store. Log in using the email the PWRcell system is registered to. Follow the sections below to configure automatic control, and to control loads directly from the app.

Circuits List Screen in PWRview

Once the PWRmanager is registered, a new screen will be added in the app. To view that screen, tap on the Circuits List icon in the center of the navigation bar (A) See *Figure 3-1*.



Figure 3-1. Circuits List Icon

There are several elements to the circuits list screen described below.



Figure 3-2. Circuits List Screen

Power Source Header

See *Figure 3-2*. At the top of the screen in (A), the header shows the grid icon which indicates that the system is grid connected.

When in an outage (B), the header shows the battery icon, state of charge, and an estimate for how long the battery will last.

Circuit Groups

Loads wired to connect through the PWRmanager during installation will appear in groups based on how they are currently controlled.

Manual Group

See *Figure* 3-2. Circuits configured as manual on or off appear at the top of the list below the power source header. If no circuits are manually controlled, this section will not appear.

Automatic - Managed Group

See *Figure 3-2*. Prioritized circuits appear in the upper group of the Circuits List screen: circuits at the top of this section will be disabled last when available power capacity reduces.

Automatic - Lockout Group

Lockout Loads appear in the bottom portion of the Circuits List screen, as shown in *Figure 3-2*. These are shed immediately upon entering an outage. This helps conserve battery energy to last through longer outages and prevent overloading the PWRcell system.

System Status and Settings

See *Figure 3-3*. When scrolling down to the bottom of the Circuits List screen, a button to bring up the system status of the unit will appear. Tap on it to see the following status information for the PWRmanager:

Internet	This indicates if the PWRmanager unit is connected to the internet.	
System	If an error has occurred in the PWRman- ager or a circuit error exists, it will be indi- cated here.	
Switch Position	Shows the position of the Mode Selector Knob. If it isn't in "Normal", the system will not function correctly.	



Figure 3-3. System Status and Settings

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Use the "Configure Circuits" button to directly access the PWRmanager through the web interface.

Navigation Bar

See *Figure 3-4*. At the very bottom of the circuits list screen is the navigation bar for the PWRview app. Tap on the other icons on the navigation bar to move to other screens in the app.



Figure 3-4. PWRview Navigation Bar

Controlling Loads in PWRview

Loads wired through the PWRmanager can be controlled in the PWRview app. Tap on the "circuits" icon in the navigation bar to see the list of loads. Tap on a circuit bar to see more detail about it. When the circuit bar is expanded, the edit icon is exposed (see *Figure 3-5*) (A). Tap on that to make changes to the circuit.



Figure 3-5. Circuit Control Panel Edit Icon

Tap on the edit icon and the circuit control panel will appear.

See *Figure 3-6*. It will show the current configuration for the circuit. Tap one of the unselected radio buttons to change it. The request will be executed and the panel will close.

INTERIOR LIGHTS - CIRCUIT CONTROL	\bigotimes	
Choose control (j)		
Automatic - Managed	~	
Automatic - Lockout	\bigcirc	
Manual - On	\bigcirc	
Manual - Off	\bigcirc	
		013755

Figure 3-6. Controlling Loads in PWRview

TABLE 3-1. Controlling Loads in PWRview

Action	Description	
Manual - ON	Will set the circuit to be "ON" until the user changes it. In an outage, if all managed loads and the Lockout loads have already been shed, and the inverter is unable to sup- port the remaining loads, the Manual - ON loads will also be shed based on their priority order (lowest to highest pri- ority).	
Manual - OFF	Will set the circuit to be "OFF" until the user changes it. Whether grid connected or in an outage, this circuit will remain "OFF".	
Automatic Lockout	Will set the circuit to be "OFF" when an outage is detected. Circuit will be "ON" while grid connected.	
Automatic Managed	Will set the circuit to remain "ON" when an outage is detected. If the inverter cannot support the load demand, Auto- matic - Managed circuits will be shed based on priority order (lowest to high- est priority). Circuit will be on while grid connected.	

Connecting to PWRmanager

There are two methods to connect to the PWRmanager locally. See the following sections to connect from within the PWRview app, or directly using a web browser.

Connect from PWRview

To open this web interface from the PWRview app, tap on the "SYSTEM SETTINGS AND STATUS" button. If the unit is available for local connection, tap "CONFIGURE CIRCUITS" (See *Figure 3-3*) to be redirected to the embedded web page for configuring the PWRmanager. If the login prompt appears, enter admin and the password from the information label on the touch-safe cover.

See *Figure* **3-7**. The landing page, with buttons, should appear.



Figure 3-7. Connected to PWRmanager

Connect to PWRmanager's AP Mode WiFi

Whether PWRmanager is available for local connection or not, it is possible to connect to its AP mode WiFi network. Set PWRmanager to temporarily broadcast this network by pressing on the WiFi button in the status console.

The WiFi LED should flash green to indicate it is broadcasting. Connect to it with your mobile device or laptop.

- Open the mobile device's WiFi configuration tab, find the PWRmanager-xxxxx WiFi AP network and connect to it.
- 2. Open a browser on the device and point it at the IP address: http://10.10.10.10 to open the web inter-face tool.

3. See *Figure* 3-8. Log in using the username (admin) and password from the information label on the touch safe cover on the PWRmanager.

3AC	WiFi SSID: PURmanager-4 2 WiFi Password: WXXXXXJ	UiFi MAC: 00:00:00:05:50:0D Eth MAC: 00:00:00:0F:B1:6A
GENEF	RCPn: 000100140136 RCPn Code: PXXX-XXXU Short ID: 4 2 Manufacturing Date: 12/2021	Admin URL: http://10.10.10.10 Admin username: admin Admin password: AXXXXXXT
		013754

Figure 3-8. Information Label

NOTE: After twenty minutes of inactivity, the AP mode broadcast will stop again, and PWRmanager will connect to the home WiFi network if it has a valid configuration for it.

Once the mobile device has connected to the web interface for the PWRmanager and logged in, adjust the settings described in the following sections.

Configuring PWRmanager

See *Figure 3-7*. The PWRmanager should be configured by the installer during installation. To reconfigure the automatic programming of the PWRmanager, connect to its built-in web interface.

Configure Each Circuit

The installer should have configured settings for each circuit as part of setting up the system. Adjust various settings if desired. After making any changes, tap on "SAVE" to record the new settings.

Load Name

See *Figure 3-9*. Tap on the "Load Label" field and enter a text label up to 39 characters long. This will display when viewing loads in the PWRview app.

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Figure 3-9. Entering the Load Name

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Load Type

The Load Type should normally only be adjusted during installation. If it is desired to change it, refer to the installation manual for the PWRmanager.

Relay(s) Assigned

Never touch the "Relay(s)" setting for any circuit. Only use this setting to view which relays are associated with specific loads in the home. Appliances like the dryer will typically have two relays assigned. Plugs and lighting typically use a single relay. This should only be adjusted by the electrician wiring the unit.

Lockout

See *Figure 3-10*. To configure the load to be disabled while the system is in back up state, select the Lockout option on the circuit. Lockout loads will be shed immediately when the grid goes down and will be powered once again when the grid returns. Use this setting to ensure the batteries will last long enough during an extended outage. This is the same as selecting Automatic - Lockout in the PWRview app and will be modified by changes from the app.

9	~	
Lock Out When Off-Grid		
Min. Off-Time (s)		
0		

Figure 3-10. Configuring Lockout

Minimum Off Time

Normally, this setting should be configured by the installer based on the type of appliance on the circuit. Contact the installer to adjust it. This setting will prevent damage to some HVAC equipment that requires a minimum off time.

When this setting is checked, the user may see a delay after trying to enable this load in the PWRview app.

Add or Delete a Circuit

These steps should be done by the installer as each circuit is wired into the PWRmanager unit. If there is a need to delete these circuits, or have new ones added, contact the installer.

Configure load priorities

See *Figure 3-11*. If it is necessary to adjust priorities on the circuits, tap on the arrows on the configuration screen. The highest priority loads will be shed last and will appear near the top of the list.Tap on the save button once the priorities are set as desired.



Figure 3-11. Configure Load Priorities

Set Up or Adjust Home WiFi Account

Set Up WiFi Connection

If the installer has not set up the connection to the home's WiFi network, or if the router credentials need to be changed, here is how:

On a mobile device, open the PWRmanager's web interface (see *Connect to PWRmanager's AP Mode WiFi*) and tap on the Setup Network button on the landing page. In the screen that appears:

- 1. Find the WiFi SSID of the router.
- 2. Tap to select it.
- **3.** In the dialog that appears, enter the password for that connection.

If the home network router SSID is not visible, connect explicitly to it:

- 1. Type in the WiFi SSID of the router.
- 2. Enter the password for that connection.
- **3.** Tap on the "JOIN NETWORK" button to establish the connection.

When tapping "JOIN NETWORK", an indication of success will appear in the web browser. As the unit switches over to the home Wifi network, the session with the device will be disconnected. Close the browser on your mobile device and confirm the WiFi LED indicates the connection to the router and the server succeeded.

Connect the mobile device to the home router or internet once more, open the PWRview app, and confirm that the circuits list screen populates with information.

Local WiFi Connection

In addition to configuration, the web interface also includes a screen to monitor and control circuits. When the internet is down, or the home WiFi is not powered, controlling circuits is possible using the web interface. In these cases the PWRview app will not be able to show information for the circuits and will indicate that the PWRmanager is not connected to internet.

Connect to the PWRmanager locally using one of the methods in the section: *Connecting to PWRmanager* Tap on the Turn Loads On/Off button on the landing page to see the circuit states and tap on the toggle buttons there to control them.

Circuit Selection

During the installation of PWRmanager, the home owner and installer will make decisions for circuit connections. Read below for important points to consider when selecting circuits. Loads can be wired through PWRmanager for load management, or can be wired directly without passing through it. Loads wired through PWRmanager can be backed up, shed (to avoid an overload), or deliberately shut off during an outage. The following sections describe these load management options.

NOTE: Many appliances will not restart after the power has been applied once more. If the power is cut for a particular appliance, when the PWRmanager re-applies power, press the restart button to continue the cycle.

Unmanaged

Loads in the breaker panel that are not wired through the PWRmanager unit will draw power from the inverter during an outage and cannot be shed by the PWRmanager. The highest priority loads are best to wire this way. Loads suitable for this may include:

- Refrigerators and freezers.
- Modem, Telephone, and security systems.
- Navigation or hallway lighting.

NOTE: PWRmanager will continue to shed loads to maintain the inverter operation, but to ensure that all functionalities including app continue, make sure the internet equipment is wired directly to the main electrical panel and is maintained during outages.

NOTE: Even if the PWRmanager unit sheds all the loads under its control, unmanaged loads will continue to draw power. If these loads exceed the inverter's capacity, then the system can shut down.

Automatic - Lockout

Loads which use significant power and are not essential during an outage should be wired to the PWRmanager and configured as Lockout. They will be shed upon entering an outage and will not be enabled again until the outage ends. Manually override the circuit from the app if desired. Loads to configure this way might include:

- Dryer
- Pool Pump
- Hot Tub
- Electric Vehicle

Automatic - Lockout is also a good option to extend battery life during an outage. Shedding these loads immediately will keep the draw on the batteries to a low level allowing them to power the home for a longer period of time.

In systems with solar installed, extend the battery backup duration and run the home's important loads until the next day's solar production can recharge the batteries.

Automatic - Managed

These loads are wired through the PWRmanager and are configured to run if they do not overload the inverter. If the total load exceeds the power capacity of the inverter, these will be shed in priority order to ensure the inverter continues to run. Loads to configure this way may include:

- Stove, Oven.
- Miscellaneous lighting and plug loads.
- Heating and Air Conditioning equipment.
- Sewage, sump, or water supply pumps.

Section 4: Specifications

Environmental Specifications

Description	Value
Mounting Options	Indoor, Outdoor, Flush Mount, and Surface Wall Mount.
Operating Temperature Range	-40°F to 122°F (-40°C to 50°C)
IP Rating	3R Outdoor Mounting

Physical Specifications

Description	Value		
Dimensions (excluding flange)	Width 14 in x Height 9 in x Depth 5 in (35.56 cm x 22.86 cm x 12.7 cm)		
Weight	14.3 lb (6.5 kg)		
Wire Sizes	14 through 6 AWG		

Performance Specifications

Description	Value
Per-circuit Current Capacity	60 A resistive 120 / 240 VAC 2 HP motor load 120 VAC 4 HP motor load 240 VAC
Number of Controllable Relays	12
Number of HVAC-control Relays (no metering)	2
Power Consumption	<20 W
Maximum Total Current	450 A
Warranty	10 years

Connectivity, Security

Description	Value
WiFi Frequency Band	2.4 GHz
IP Addressing	DHCP, Static
Encryption	TLSv1.2

Compliance

Description	Value
UL	UL916

Section 5: Troubleshooting

Troubleshooting

Reset PWRmanager

Contact the installer for support with the PWRmanager and the system. If instructed to do so, reset the PWRmanager by opening the front cover and pressing the reset button for one second. The unit will return to its initial state but will remember all configuration settings.

Factory Reset

A factory reset should only be performed by the installer. Pressing the reset button for 10 seconds will reset the unit to out of the box conditions.

NOTE: This will require that all WiFi information be entered again, and will cause all relay and load configurations to be discarded.

After performing a factory reset, all relays will return to the open state and must be reconfigured for use.

The unit will begin broadcasting its WiFi AP mode channel again until it is configured.

Serial Number Location

When contacting Generac support during troubleshooting steps, provide the serial number for your PWRmanager. It is on the right side face of the unit as shown in the image below.



Figure 5-1. Serial Number Location

Troubleshooting

Symptom	Cause	Corrective Action			
No LED's are lit.	Power to the unit is off. Breaker on channel 1 circuit is tripped.	Reset the breaker. Otherwise, con- tact the installer.			
	Breaker on this circuit is tripped.	Reset the breaker and see if it fixes the indication.			
Relay LED is Red.	Relay has failed or is wired incor- rectly.	Contact the installer or technical support and note which relay has failed.			
WiFi / Ethernet Status LED is Red.	WiFi connection lost or not able to connect to home network.	Follow the steps in Set Up or Adjust Home WiFi Account.			
WiFi / Ethernet Status LED is Flashing Blue.	PWRmanager is attempting to con- nect to home network.	Wait for it to connect. If it turns red after this step, it has failed. See WiFi LED Red above.			
WiFi / Ethernet Status LED is Flashing Green.	WiFi AP mode is broadcasting.	Connect directly with your mobile device. See section <i>Connect to PWRman- ager's AP Mode WiFi</i> . NOTE: In this state, PWRmanager is not connected to the Internet.			
All relays are off. The web interface and app cannot change any of them. The unit status light is flashing orange.	Mode Selector is in "All Off" position.	Return Mode Selector to the nor- mal position for the functions to work.			
All relays are off. The web interface and app cannot change any of them.	Full overload on the inverter from the unmanaged loads.	Turn off breakers on some unman- aged loads as needed for inverter to continue to supply power.			
All relays are on. The web interface and app cannot change any of them. The unit status light is flashing orange.	Mode Selector is in "All On" position.	Return the Mode Selector to the normal position for the functions to work.			
Cannot find the PWRmanager-xxxx broadcast WiFi network. WiFi LED is not flashing green.	Unit already has home network WiFi configured. 20-minute AP mode timer may have expired.	To trigger the local AP network, press on the WiFi button and con- firm that the WiFi LED begins to flash green.			
	Breaker on Channel 2 is tripped.	Reset the breaker.			
Power Readings are Incorrect.	Correct power line wire is not con- nected to Channel 2.	Contact installer.			
Load shedding does not occur on enter- ing an outage, and the inverter shuts down.	Load Shedding is not enabled on the PWRcell Inverter.	Refer to the PWRcell Inverter Installation and Owner's manual for instructions on how to enable it. Otherwise, contact the installer or Generac support.			
Internet connection in App shows as Not Connected.	PWRmanager is not connected to the home WiFi network.	Follow the steps in Set Up or Adjust Home WiFi Account.			
App System Status is Error.	PWRmanager has an internal error.	Contact your installer or technical support.			
App System Status is Circuit Error.	Breaker on one of the circuits is tripped.	Reset breaker. If that doesn't fix the issue, contact installer or Generac support and note which circuit LED indicates error.			

Section 6: Dimensions and Drawings

Enclosure Base





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