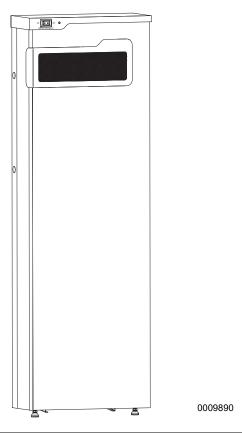


Owner's Manual

For Generac PWRcell™ Battery





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)

Register your Generac product at:

https://pwrfleet.generac.com

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

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

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 Locations**.

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

Operation and Maintenance: Proper maintenance and care of the energy storage system ensures a minimum number of problems and keeps operating expenses at a minimum. It is the operator's responsibility to perform all safety checks, to verify that all maintenance for safe operation is performed promptly, and to have the equipment checked periodically by an ASD. Normal maintenance, service and replacement of parts are the responsibility of the owner/operator and, as such, are not considered defects in materials or workmanship within the terms of the warranty. Individual operating habits and usage may contribute to the need for additional maintenance or service.

Table 1 - Important Information

Description	Model Number	Serial Number	Date Purchased	Date Commissioned
Generac PWRcell™ Battery				
Battery Module 1				
Battery Module 2				
Battery Module 3				
Battery Module 4				
Battery Module 5				
Battery Module 6				

▲WARNINGCANCER 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 PWRcell™ product. This owner's manual includes full details on the use, operation, and maintenance of the PWRcell battery. The companion document to this manual is the Generac PWRcell Battery Installation Manual. See the Generac PWRcell Battery Installation Manual for complete information on installing, wiring, and commissioning the battery

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



WARNING

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 assistance. The owner is responsible for correct maintenance and safe use of the unit.

This manual must be used in conjunction with all other supporting product documentation supplied with the product.

SAVE THESE INSTRUCTIONS for future reference. This manual contains important instructions that must be followed during placement, operation, and maintenance of the unit and its components. Always supply this manual to any individual that will use this unit, and instruct them on how to correctly start, operate, and stop the unit in case of emergency.

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:

A DANGER

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

(000001)

AWARNING

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

(000002)

ACAUTION

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

For assistance, 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**.

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

A DANGER

Automatic start-up. Disconnect utility power and render unit inoperable before working on unit. Failure to do so will result in death or serious injury.

(000191)

▲WARNING

Risk of injury. Do not operate or service this machine if not fully alert. Fatigue can impair the ability to service this equipment and could result in death or serious injury. (000215)



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)

AWARNING

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)

ACAUTION

Equipment damage. Connect only to REbus-compatible devices to the DC bus. Never connect to any other DC power source. Connecting to other DC power sources could result in equipment damage.

(000598a)

- Connecting the PWRcell system to the electric utility grid must only be done after receiving prior approval from the utility company.
- Only competent, qualified 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.

- If working on energized equipment while standing on metal or concrete, place insulative mats over a dry wood platform. Work on this equipment only while standing on such insulative mats.
- 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 over-voltage class CAT III.

Electrical Hazards



A DANGER

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

(000104)



Battery Hazards

AWARNING

Explosion. Do not dispose of batteries in a fire. Batteries are explosive. Electrolyte solution can cause burns and blindness. If electrolyte contacts skin or eyes, flush with water and seek immediate medical attention. (000162)

AWARNING

Environmental Hazard. Always recycle batteries at an official recycling center in accordance with all local laws and regulations. Failure to do so could result in environmental damage, death, or serious injury. (000228)

ACAUTION

Equipment damage. Use ONLY manufacturer approved battery modules. Using any other module could damage

(000601)

Generac PWRcell Battery and may void the warranty.

Always recycle batteries in accordance with local laws and regulations. Contact your local solid waste collection site or recycling facility to obtain information on local recycling processes. For more information on battery recycling, visit the Battery Council International website at:

http://batterycouncil.org

Fire Hazards

▲ DANGER

Electrocution. PWRcell Battery front cover should be removed by a qualified technician only. Removing the front cover could result in death, serious injury, equipment or property damage. (000604)



▲ 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. Turn battery disconnect OFF and de-energize REbus before touching terminals. Failure to do so will result in death, serious injury, equipment and property damage.

(000599)



A DANGER

Electrocution. Verify electrical system is properly grounded before applying power. Failure to do so will result in death or serious injury. (000152)



A DANGER

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

(000188)

WARNING

Fire hazard. Never attempt to fight a fire yourself. Evacutate the building and contact emergency services. Inform dispatcher that lithium-ion batteries are in the building. Failure to do so could result in death, serious injury, or property or equipment damage. (000603)



WARNING

Electrocution. Potentially lethal voltages are generated by this equipment. Render the equipment safe before attempting repairs or maintenance. Failure to do so could result in death or serious injury.

(000187)

AWARNING

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) Safety Rules & General Information

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Section 2: General Information

Specifications

Description	Units	PWRcell 9	PWRcell 12	PWRcell 15	PWRcell 1
Energy		1			
Usable Energy	kWh	8.6	11.4	14.3	17.1
Power	1	1			
Continuous*	kW	3.4	4.5	5.6	6.7
60 minutes**	kW	4.2	5.6	7.0	8.4
2 minutes**	kW	5.0	6.7	8.4	10.0
Battery Modules					
Number	-	3	4	5	6
DC Voltage (per module)	VDC	46.8 (39-52)			l .
REbus	1	1			
Communication Protocol	-	REbus DC nanogrid			
Voltage: Input/Output***	VDC	360-420			
Round-Trip Efficiency (DC to DC)	%	96.5			
Temperature	1	1			
Operating Temperature Limits****	°F (°C)	41-113 (5-45)			
Recommended Temperature Range	°F (°C)	54-86 (13-30)			
Installation Altitude					
Maximum Installation Altitude*****	ft (m)	9834 (3000)			
Weight	1	1			
Enclosure	lb (kg)	115 (52)			
Installed	lb (kg)	280 (127)	335 (152)	390 (178)	445 (202)
Compliance	•	•	•	•	
UL	-	UL 9540, UL 1973, UL 1642,			
CSA	-	CSA 22.2			

^{*}Full cycle: 0% to 100% to 0% SoC @ 30° C

Specifications are subject to change without notice. Refer to the product specification sheet for complete list.

^{**} Discharge @ 25° C

^{***380}VDC Nominal

^{****}Reduced performance at extreme temperatures

^{*****}Module warranty void if installed above limit

Serial Number Locations

Refer to *Figure 2-1* to locate serial numbers for the unit (A) and the individual battery modules (B). Record this information in *Table 1: Important Information* on the inside front cover of this manual so it is available if the tags are lost or damaged. When ordering parts or requesting assistance, you may be asked to provide this information.

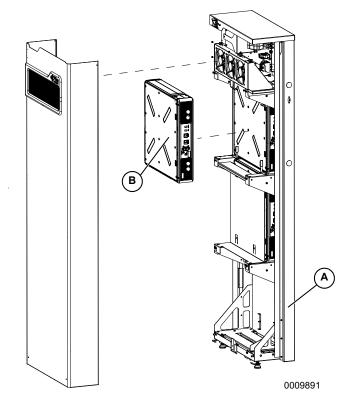


Figure 2-1. Serial Number Location

Unit Dimensions

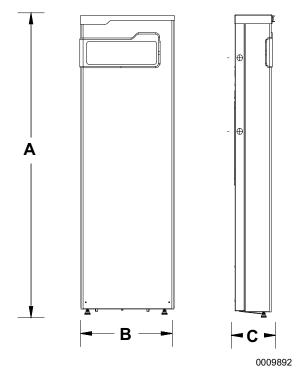


Figure 2-2. Unit Dimensions

Α	67-5/8 in (1737 mm)
В	22 in (558 mm)
С	9-7/8 in (251 mm)

Component Locations

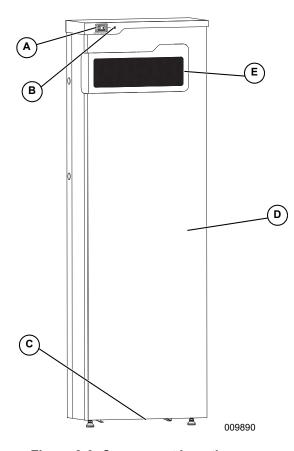


Figure 2-3. Component Locations

- A Battery disconnect switch
- **B** Battery status LED
- C Intake filter
- **D** Front cover
- **E** Exhaust vent

Battery Disconnect Switch



A DANGER

Electrocution. Initiate a system-wide shutdown and turn the PWRcell Disconnect Switch OFF on all connected batteries before performing service. Failure to do so will result in death, serious injury, equipment and property damage. (000600)

See *Figure* 2-3. Battery Disconnect switch (A) disconnects the battery string from the battery monitoring system (BMS) electronics.

The Battery Disconnect switch can be locked in the OFF position if required. The switch bracket accepts a standard lockout/tagout lock.

NOTE: Turn Battery Disconnect OFF whenever the system will be powered down and left inactive for an extended period of time to prevent battery discharge.

Battery Status LED

See *Figure 2-3*. The color and strobing interval of LED (B) communicates battery status.

Table 2-1. Battery Status LED

LED State	Interpretation (strobe interval)
Green, 3 sec solid at power up	Enabled, operation starting
Red, 3 sec solid at power up	Disabled
Red/green, alternating	Initializing, connecting battery and REbus, system energizing
Green, solid	Enabled, charging
Green, strobe	Enabled, standby (3 sec)
Green, rapid flashing	Enabled, discharging
Orange, solid	Waiting
Orange, strobe	Asleep (8 sec)
Red, strobe	Disabled (3 sec)
Red, rapid flashing	Error state

About PWRcell Battery

The PWRcell battery is the storage component of the PWRcell system. The battery can be used for grid-connected solar applications, such as self-supply, rate arbitrage and clean backup power. The battery is designed to work seamlessly with PV Links and the PWRcell inverter to form the PWRcell system for grid-tied solar-plus-storage.

All PWRcell products use the REbus 380VDC nanogrid to connect to each other. The REbus nanogrid automates the flow of power to enable plug-and-play setup and operation of PWRcell equipment.

In *Figure 2-4*, a REbus-compatible PWRcell inverter (E) is directly connected to PV Link (B) and PWRcell battery (C) on the DC (REbus) line (D). To the right of the inverter are AC lines: 240VAC or 208VAC for grid and home loads (G), and protected load (H) support up to 50A.

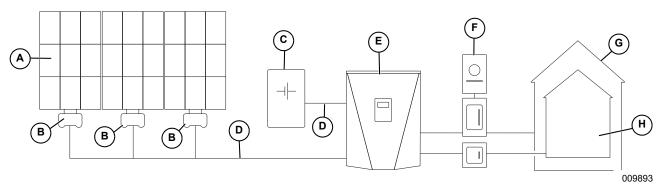


Figure 2-4. Generac PWRcell System Example.

- A Solar Panels
- **B** PV Link
- C PWRcell Battery
- **D** REbus

- **E** PWRcell Inverter
- F Grid
- **G** Loads
- **H** Protected Loads

Communication

All communication between REbus devices takes place over the REbus conductors using Power Line Carrier (PLC) communication. No additional communication wiring or equipment is required for communication between a PWRcell Inverter, PV array, and/or other REbus enabled batteries.

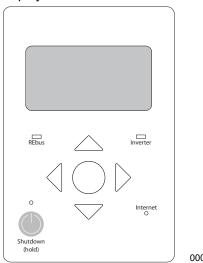
System Operational Modes

The PWRcell system has several operational modes available for various installation configurations, markets, and applications. Operational modes are selected through the PWRcell inverter control panel. The inverter prioritizes the distribution of power differently based on the selected operational mode.

See the Generac PWRcell inverter installation and operation manuals for complete instructions on configuring the entire system for each operational mode.

Inverter Control Panel

See *Figure 2-5*. The battery is controlled through the PWRcell inverter control panel. Use the inverter control panel to enable or disable the battery, and to set the operational mode for the system. See the Generac PWRcell Inverter Owner's Manual for more information on settings and display screens.



0009894

Figure 2-5. Inverter Control Panel

Battery State of Charge (SoC) Setpoints

There are four user-adjustable setpoints related to the battery state of charge (SoC): Max Absolute, Max Arbitrage, Min Arbitrage, and Min Absolute. These setpoints are adjusted through the inverter control panel. See the Generac PWRcell Inverter Owner's Manual for more information.

Table 2-2. Battery State of Charge Setpoints

Setpoint	Behavior
Max Absolute SoC	Maximum percent the battery can charge to. When battery SoC reaches this value, the battery will not charge from any source.
	Default value is 100%.
	Lowering this setpoint reduces usable capacity and is not recommended.
Maximum Reserve SoC	Manages battery capacity by prioritizing where PV power goes. When battery SoC reaches this value, PV power is diverted from charging the battery to powering local loads, saving battery capacity available for charging for a later time. When power can not be exported to the grid, this extra capacity can be used to absorb peak PV so that PV wasn't wasted due to a fully charged battery. • Default value is 100%. • Changing this value is only recommended in very specific arbitrage situations.
Minimum Reserve SoC	Manages the reserve of power guaranteed to be available for local loads in the event of a grid outage. When battery SoC drops to this setpoint, the battery will no longer power local loads as long as the grid is still present. • Default value is 30%. • Lowering this setpoint increases battery capacity available for Self Supply and other non-backup uses, but lowers the islanding reserve in the event of an outage. • Raising this setpoint lowers capacity available for Self Supply and grid-connected modes, but increases islanding reserve in case of a grid outage.
Min Absolute SoC	Shut off point where the battery stops discharging. When battery SoC drops below this value, the battery shuts off and will not discharge further. If the grid is present, then the battery will charge as soon as power is available on REbus. If the grid is not present and the system was islanding, then the system will go to sleep and perform a Power Search periodically. See <i>Power Search</i> . • Default value is 2%. • If this setpoint is lowered, the system can provide more energy before it goes to sleep, but the Power Search reserve will be smaller. • If this setpoint is raised, the system may shut down sooner during an outage, but the Power Search reserve will be larger.

Adjusting SoC Setpoints

SoC setpoints are adjusted on the inverter control panel. See the Generac PWRcell Inverter Owner's Manual for more information.

To adjust SoC setpoints:

- 1. Use the left and right arrows to access the battery page, and press center button to enter the battery menu.
- 2. Use the up and down arrows to highlight Mod. Setting, and press center button to enter the Mod. Settings menu.
- **3.** Use up and down arrows to highlight the desired SoC setpoint, and press center button to select.
- **4.** Use up and down arrows to adjust set point value.
- 5. Press center button to lock value.

- **6.** Use down arrow to scroll to the bottom of the list where Cancel is highlighted, then press right arrow to highlight Save.
- 7. Press center button save the setpoint change.

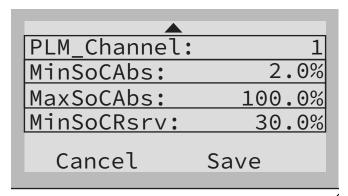


Figure 2-6. SoC Setpoint Screen Example

Islanding Mode

In the event of a grid outage, the PWRcell inverter enters Islanding Mode. During Islanding Mode, the inverter disconnects from the utility grid and powers the building from the REbus nanogrid.

In a typical solar-plus-storage configuration, this means the battery and all REbus-connected batteries will work together with the PV links to supply power to REbus. The inverter will pull power off of REbus to provide AC power to the building.

NOTE: To island during a power grid outage, the inverter islanding setpoint must be set to YES and the system mode can not be set to Grid Tie. See the Generac PWRcell Inverter Owner's Manual for more information.

Sleep Mode

While in Islanding Mode, the battery charges from REbus when PV power is greater than local demand. However, as the battery provides power to building loads, its state of charge (SoC) decreases. Once the battery SoC reaches the Min Absolute setpoint, the system enters Sleep Mode. In Sleep Mode, the inverter shuts down, and the building loses power. See *Battery State of Charge (SoC) Setpoints* for more information.

Power Search



A DANGER

Electrocution. Turn battery disconnect OFF and de-energize REbus before touching terminals. Failure to do so will result in death, serious injury, equipment and property damage.

(000599)

While in Sleep Mode, the battery performs Power Searches at regular intervals.

During a Power Search, the battery wakes up, energizes the REbus nanogrid, and scans for potential sources of power. If a PV Link or another source of power is available, then the battery will begin charging. Once the battery SoC is 5% above the Min Absolute SoC setpoint, the PWRcell system may resume exporting power to support backup loads when islanded. If Power Search does not discover other sources of power, the battery returns to sleep to conserve energy.

The length of time Power Search keeps REbus energized before returning to sleep and the Power Search interval are user-adjustable and are set on the inverter control panel. See the Generac PWRcell Inverter Owner's Manual for more information.

Table 2-3. Default Power Search Values

Setpoint	Description	Default
Sleep Time	Minutes between Power Searches	60
PowSrch Time	Minutes Power Search keeps REbus energized	4

The battery can only perform a Power Search a certain number of times before it runs out of energy completely. The number of searches available is dependent on the value of the Min Absolute Soc setpoint. Once the battery depletes its Power Search reserve, the battery will not energize the REbus nanogrid on its own. Another source of power is required to energize REbus and charge the battery.

See **Battery State of Charge (SoC) Setpoints** for more information.

NOTE: Turn Battery Disconnect OFF whenever the PWRcell inverter will be disabled for a long period of time. This prevents Power Search from running the battery down below its minimum SoC.

Blackstart

NOTE: Blackstart battery voltage must be 13V or greater to power the system.

NOTE: The battery must be enabled to Blackstart. If the battery is disabled, perform a manual enable. See *Manual Enable*.

Blackstart allows the battery to power up a PWRcell system that is powered down and has no REbus sources of power available.

See *Figure 2-7*. To Blackstart, turn Battery Disconnect (A) ON. LED (B) will light green if the battery last status was enabled and the battery has sufficient charge.

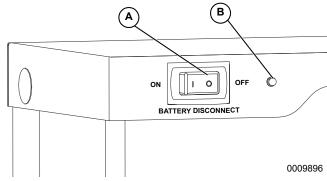


Figure 2-7. Blackstart

After initialization is complete, the battery automatically energizes REbus and begins supporting REbus and protected AC loads connected to the inverter, and charging from the PWRcell PV Link and other sources.

Manual Enable

See *Figure 2-7*. If LED (B) lights solid red when the Battery Disconnect switch is turned ON, the battery is disabled.

PWRcell can be disabled if:

- Disabled by a user.
- A shutdown was performed.
- The battery reached a critically low state of charge and no REbus voltage was present
- No grid power was available during commissioning.

NOTE: To avoid the need for a manual enable, keep the battery enabled, connected to REbus, and with Battery Disconnect ON.

To perform a manual enable:

- 1. Turn Battery Disconnect (A) ON.
- 2. If the unit is disabled, LED (B) will light red for 3 seconds.
- **3.** While the LED is still red, turn Battery Disconnect OFF.
- **4.** Perform steps 1-3 three times in total.
- 5. Turn Battery Disconnect ON for a fourth time.

The battery is now enabled. If the battery has sufficient charge, LED (B) will light green to indicate the battery is enabled and the system will Blackstart and resume normal operation.

General Information

This page intentionally left blank.

Section 3: Maintenance

Annual Maintenance



A DANGER

Electrocution. PWRcell Battery front cover should be removed by a qualified technician only. Removing the front cover could result in death, serious injury,equipment or property damage. (000604)

On an annual basis:

- Clean the exterior of the enclosure with a soft cloth.
- Ensure surrounding area is free of leaves, pet hair or other debris that could obstruct airflow in or out of the unit.
- Inspect the unit. Look for conditions that could hinder performance or safety, such as (but not limited to):
 - Blocked vents
 - Dirty intake filter
 - Loose/missing hardware
 - Loose or broken electrical connections.

NOTE: The 12V Blackstart battery should be inspected annually by a qualified installer or technician. See **Service** for more information.

Inspecting Vents

See *Figure 3-1*. Verify intake vent (A) and exhaust vent (B) are clear at all times.

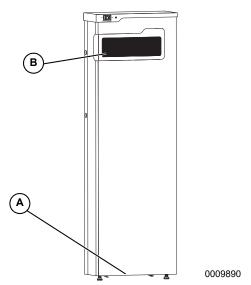


Figure 3-1. Intake Vent and Exhaust Vent

Cleaning Intake Filter

- **1.** See *Figure 3-2*. Grasp pull tab (C) and push frame back to compress retention springs.
- 2. Pull tab down and out.
- 3. Slide filter out.
- **4.** Clean filter with a vacuum cleaner, compressed air, or water.

NOTE: Allow filter to dry before reinstalling.

5. Reinstall filter.

If air filter is damaged or becomes difficult to clean, contact the nearest Independent Authorized Service Dealer (IASD) or Generac Customer Service at 1-888-GEN-ERAC (1-888-436-3722) or visit www.generac.com for a replacement filter.

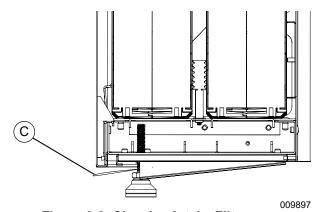


Figure 3-2. Cleaning Intake Filter

Service



A DANGER

Electrocution. PWRcell Battery front cover should be removed by a qualified technician only. Removing the front cover could result in death, serious injury, equipment or property damage.

(000604)



A DANGER

Electrocution. Turn battery disconnect OFF and de-energize REbus before touching terminals. Failure to do so will result in death, serious injury, equipment and property damage.

(000599)



A DANGER

Electrocution. Initiate a system-wide shutdown and turn the PWRcell Disconnect Switch OFF on all connected batteries before performing service. Failure to do so will result in death, serious injury, equipment and property damage. (000600)

The PWRcell system contains a 12V Blackstart battery used for restoring the system to an operational state after an extended outage where no power source is available to recharge the Li-lon batteries. Generac Power Systems, Inc. recommends that the Blackstart battery condition and state of charge be inspected annually by a qualified installer or technician and replaced after 5 years to ensure proper operation.

If you are experiencing a problem with this product, contact a qualified installer or technician for appropriate service. Qualified persons may refer to the Generac PWRcell Installation Manual for information on replacing the internal fuses and other troubleshooting.

Decommissioning

AWARNING

Environmental Hazard. Always recycle batteries at an official recycling center in accordance with all local laws and regulations. Failure to do so could result in environmental damage, death, or serious injury. (000228)

WARNING

Environmental Hazard. Decommissioning must be performed by qualified personnel. Decommissioning performed by unqualified personnel could result in environmental damage, death, or serious injury. (000654)

Battery modules will be required to be decommissioned at the battery module end of life stage or if the PWRcell battery system will be removed from the premises in accordance with these instructions, the requirements in NFPA 855, and all applicable code requirements. The authority having jurisdiction (AHJ) shall be notified prior to the decommissioning of the PWRcell battery system.

Decommissioning Plan.

The owner of the PWRCell battery system and the qualified Generac Service Dealer shall prepare a written decommissioning plan that provides the overview of the decommissioning process developed specifically for the PWRCell battery system that is to be decommissioned. decommissioning plan shall provide requirements and methods necessary to discharge the stranded energy in battery modules and the proper removal from the installation site including the transportation and recycling process for the battery modules.

After the PWRcell battery system has been decommissioned, a decommissioning report shall be prepared by the owner of the PWRcell battery system and the qualified Generac Service Dealer indicating the date the system was decommissioned, the final results of the decommissioning process, and any issues that were identified during the decommissioning process and the required measures taken to resolve those issues.

Battery Recycling

Always recycle batteries in accordance with local laws and regulations. Contact your local solid waste collection site or recycling facility to obtain information on local recycling processes. For more information on battery recycling, visit the Battery Council International website at: http://batterycouncil.org

