

48V 100Ah GOLF CART LITHIUM BATTERY

REGENERATIVE BRAKING COMPATIBLE

Installation • Operation • Safety • Maintenance

IMPORTANT: Read this manual completely before installing or operating the battery.

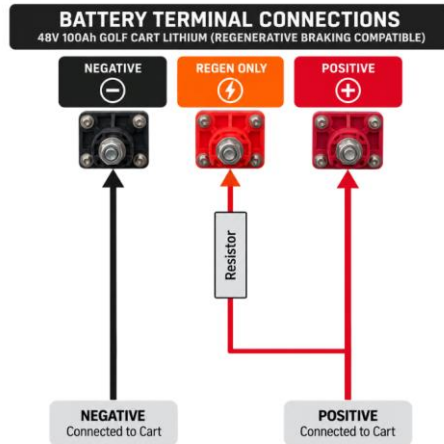
IMPORTANT: Golf cart wiring and regenerative braking arrangements vary by make, model and controller. The cart manufacturer's wiring information and the battery-specific specifications always take precedence. If the installation differs from the diagram supplied with this battery, stop and obtain technical advice.

Before Installation

- Confirm the golf cart is a 48V system and that the battery is suitable for the cart, motor controller and regenerative braking arrangement.
- Inspect the battery, terminals, cables, charger and mounting hardware for shipping or physical damage.
- Check that the battery tray is clean, dry and structurally sound.
- Identify the battery terminals before connecting any cable: NEGATIVE (-), POSITIVE (+), and REGEN ONLY.
- Confirm the cart's main positive and negative cables and identify the regenerative braking circuit.
- Do not guess the function of an unidentified cable. Refer to the cart/controller wiring information or use a qualified technician.

Battery Terminal Connections

Use the following supplied connection diagram as the primary visual reference. The main cart negative connects to the NEGATIVE terminal. The main cart positive connects to the POSITIVE terminal. The regenerative braking path connects to the dedicated REGEN ONLY terminal through the specified resistor arrangement.



REGEN TERMINAL: The REGEN ONLY terminal is not a substitute for the main positive or negative terminal. Do not connect the cart's normal traction positive cable to the REGEN ONLY terminal.

Installation Procedure

- Switch the golf cart OFF, remove the key and engage the parking brake.
- Isolate/remove the existing battery system in accordance with the cart manufacturer's procedure.
- Position the 48V 100Ah lithium battery securely in the battery tray and install suitable hold-downs.
- With all power still isolated, connect the cart's main NEGATIVE cable to the battery NEGATIVE (-) terminal.
- Connect the cart's main POSITIVE cable to the battery POSITIVE (+) terminal.
- Connect the regenerative braking circuit exactly as shown in the supplied diagram: the regenerative path is routed through the resistor to the dedicated REGEN ONLY terminal.
- Check every connection for correct polarity, correct terminal location and secure mechanical fit. Fit terminal covers where provided.
- Ensure cables cannot rub on sharp edges, moving parts or hot components.
- Before powering the cart, perform a final visual inspection and verify system polarity with an appropriate meter.
- Power the battery/cart system on in accordance with the battery and golf cart instructions.

Regenerative Braking - Important Information

During regenerative braking, the golf cart motor/controller can return electrical energy toward the battery system. The dedicated regenerative connection and resistor arrangement are intended to manage the system as designed. Incorrect wiring can cause loss of expected braking behaviour, BMS protection events, controller faults, overheating or component damage.

- Do not bypass the resistor shown in the connection diagram.
- Do not connect the regenerative circuit directly to a terminal unless the battery-specific wiring instructions explicitly require it.
- Do not alter controller regenerative settings solely by trial and error.
- After installation, test braking at very low speed in a clear, controlled area before normal operation.
- If regenerative braking is weak, absent, unusually aggressive or produces a fault, stop using the cart until the installation is checked.

Resistor Requirements

SPECIFICATION REQUIRED: Use only the resistor value and power rating specified for this battery/cart installation. The supplied image establishes the wiring location but does not state the resistor resistance or wattage. Do not substitute a resistor based only on physical appearance.

Charging

- Use a charger approved for the battery's specific LiFePO4 charge profile and voltage limits.
- Do not use a lead-acid charger.
- Inspect the charger plug, socket and cables before use.
- Charge in a dry, ventilated location away from flammable materials.
- Do not charge a physically damaged battery.
- If the BMS prevents charging because of temperature or another protection condition, identify and correct the cause rather than repeatedly bypassing or resetting protection.
- Avoid repeatedly operating the battery until the cart stops from low-voltage protection.
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CHARGING VALUES: The exact maximum charge voltage, recommended charge current and temperature limits must come from the battery's approved specification sheet. They are intentionally not guessed in this manual.

Storage and Maintenance

- For extended storage, switch/isolate the battery in accordance with the battery's approved instructions.
- Store in a cool, dry location away from direct heat and ignition sources.
- Check the battery periodically during extended storage and recharge according to the battery supplier's storage requirements.
- Regularly inspect terminals, cables, mounting points, the regenerative resistor and connectors for looseness, heat damage, corrosion, or abrasion.
- Do not pressure wash the battery or electrical connections.

Troubleshooting

Symptom	Check	Action
Cart has no power	Battery isolation, BMS status, main cables, fuse/protection and polarity.	Switch off and inspect. Do not bypass protection.
Cart will not charge	Charger compatibility, connections, AC supply and BMS protection status.	Stop charging if abnormal and verify the approved charger/settings.
Regen braking not operating normally	REGEN ONLY wiring, resistor connection, controller configuration and fault indications.	Stop normal use and have the regenerative circuit checked.
Battery/BMS trips during braking	Regen wiring, battery state of charge, controller behaviour and approved system limits.	Do not repeatedly reset and continue driving; diagnose the cause.
Cable/terminal becomes hot	Loose/undersized connection, damaged cable or excessive current.	Stop immediately, isolate power and repair before reuse.
Unusual smell, swelling or smoke	Possible battery or electrical fault.	Stop use, move people away from the area if safe to do so, and seek qualified assistance.

WARRANTY AND SAFETY: Damage caused by incorrect polarity, short circuit, incompatible charging equipment, incorrect regenerative wiring, unauthorised modification, unsuitable controller configuration or installation contrary to the approved battery/cart instructions may not be attributable to a battery manufacturing defect. Consumer rights that cannot lawfully be excluded remain unaffected.

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48V 100Ah Golf Cart Lithium Battery - Regenerative Braking Compatible

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