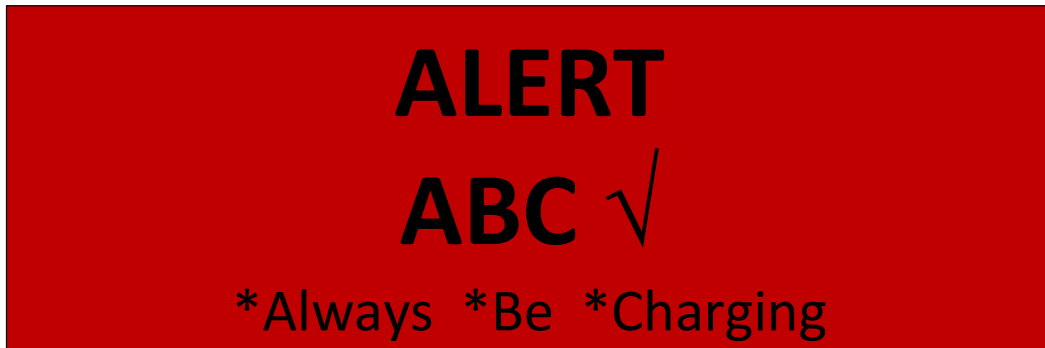


PURE ENERGY USA
WEBSITE: PUREENERGYBATTERY.COM
ADDRESS: 529 Seaside Rd SW Ocean Isle Beach, NC

Congratulations on your new high performance

PURE ENERGY USA Battery

Quick Start guide



*Always keep your Vehicle plugged in to the smart charger when not in use. The Battery computer (BMS) will turn charger on & off as needed.

*If you do not do this, your SOC (State of Charge) meter will read inaccurately the next time you use your Vehicle. You potentially will run out of power sooner than expected.

*If your Vehicle will not be in use for more than 1 week, we recommend leaving your Battery at 50-70% SOC on the meter, unplug your charger from the wall outlet, and turn off the Battery by pressing the on/off switch on the Battery. When you are ready to put the Vehicle back in service, plug in the charger to the wall outlet, and let the charger perform a full charge cycle uninterrupted. This will re-sync the SOC meter to the Battery and you will be fully charged.

***IMPORTANT: Charge battery to 100% before first use.**

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*PURE energy USA batteries are provided as energy storage to provide power for many Vehicles (Golf Carts, RVs, boats, etc.).

*You should not use our products for anything not recommended by the original manufacture of your Vehicle. We highly encourage you to contact the original manufacturer of your Vehicle if you have any intentions to modify their original design or specifications to ensure those modifications are safe.

*Do not use any extension cord over 15ft with a rating below 12 AWG. Longer extension cords with lighter gauge wires create heat resistance and could present a risk of electrical fire.

*Failure to follow these instructions will VOID the warranty and will create operational issues with your Battery and Vehicle.

Customer acknowledgement:

Sign: _____ Date: _____

Please refer to your owners manual for additional Battery operations, safety precautions, Bluetooth, installation, etc.

Users Manual

Welcome to PureEnergy Products

At PureEnergy, we deliver safe, reliable golf cart batteries engineered with an integrated battery system. Designed as a seamless drop-in replacement for traditional lead-acid batteries, our lithium packs fit and function with most standard golf carts—no extra modifications needed.

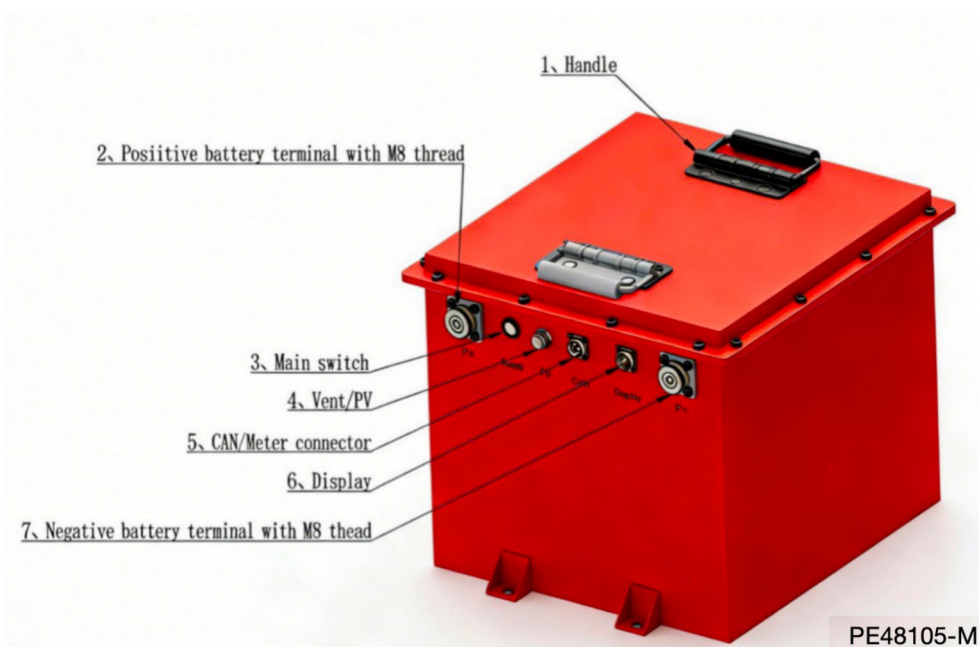
Important Safety Note: Always read this user manual thoroughly before use, and exercise caution during operation. This product is not intended for use by children or individuals with limited mobility without direct adult supervision.

OVERVIEW

The batteries are equipped with an integrated cell management system which features:

- Cell balancing
- Battery voltage monitoring
- Battery current monitoring
- Pre-warning when battery capacity less than 30% (communication by means of CAN)
- Battery temperature monitoring (integrated temperature sensor)
- Heating function

Component Description



Main Switch Operation

- Power On: Press the "MAIN SWITCH" once. A blue indicator light will illuminate to confirm the battery is active.
- Power Off: Press and hold the "MAIN SWITCH" for 3 seconds, then release it. The blue indicator light will turn off to signal that the battery power is fully disconnected.
- Anti-Frequent Cycling Note: To protect battery life, wait 10 seconds after turning the power on before initiating a shutdown. This prevents strain from rapid on-off cycles.

Heating Function

When the internal battery temperature drops to 0°C (32°F), a low-temperature charging alert will trigger, and the heating function will turn on.

The low-temperature charging alert will clear once the internal battery temperature rises to 2°C (35.6°F).

The heating function will shut off when the internal battery temperature reaches 10°C (50°F).

Heating Appointment Function

You can set the heating start time and duration as needed.

When the scheduled time comes, the BMS will check if the battery's internal temperature is below 32°F.

If it is, the heating function will activate. It will stop either when the set heating duration ends or when the battery's internal temperature reaches 50°F.

DELIVERY CONTENTS

			
51V-105AH Battery	SOC (state of charge meter)	AC port and AC extension cord	3-3/8, 3-5/16 battery ring terminal connector/10-10" tie
			
Bracket with Nuts and PUREs	2-40" 2AWG cables	Lead battery removal strap	48V- 400A solenoid with diode
			
Waterproof high speed charger	M8 hardwire pigtail plug w/5/16 ring terminals	36-51V PURE 30 AMP high output reducer	AC Hardwire/ onboard charge adaptor and Professional kit

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Connection Tips:

1. Mount the meter on your golf cart's dashboard in a easily visible, accessible spot (avoid areas blocked by steering wheels or controls) for quick power checks.
2. Plug the meter cable into the matching connector on the battery—ensure the connection clicks into place to guarantee accurate power level readings.

Battery replacement

1. Open your golf cart's battery compartment to locate the existing lead-acid batteries.
2. Safely disconnect all wires (start with negative terminals first) and remove the old lead-acid batteries.
3. Secure the mounting bracket to the base of the battery compartment using the provided hardware.
4. Place the new battery pack into the compartment and fasten it firmly to the bracket base.
5. Reconnect the wires safely (start with positive terminals first), and your golf cart is ready for use.

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Specification

Model		51.2V 105Ah MINI	51.2V 105Ah THIN	38.4V 105Ah	76.8V 105Ah	51.2V 173Ah
Technical Parameter	Nominal voltage	51.2V	51.2V	38.4V	76.8V	51.2V
	Nominal capacity	105Ah	105Ah	105Ah	105Ah	173Ah
	Stored energy	5.376kWh	5.376kWh	4.032kWh	8.064kWh	8.857kWh
	Life cycles	>4000 times	>4000 times	>4000 times	>4000 times	>4000 times
	Self discharge	Max 3% per month	Max 3% per month	Max 3% per month	Max 3% per month	Max 3% per month
Charge current	Maximum charge	52.5A	52.5A	52.5A	52.5A	86.5A
	Standard charge	25A	25A	25A	20A	25A
Charging time	Standard charge	4.5h	4.5h	4.5h	5.5h	7h
Discharge	Continuous discharge	105A	105A	105A	105A	173A
Discharge current	Maximum Continuous discharge	250A	250A	250A	250A	250A
	Over Current protection	500A with 30S	500A with 30S	500A with 30S	500A with 30S	500A with 30S
Environment	Charge temperature range	4°F-131°F (-20°C~55°C)	4°F-131°F (-20°C~55°C)	4°F-131°F (-20°C~55°C)	4°F-131°F (-20°C~55°C)	4°F-131°F (-20°C~55°C)
	Discharge temperature range	4°F-131°F (-20°C~55°C)	4°F-131°F (-20°C~55°C)	4°F-131°F (-20°C~55°C)	4°F-131°F (-20°C~55°C)	4°F-131°F (-20°C~55°C)
	Storage temperature range	4°F-113°F (1 month) (-20°C~45°C)32°F-86°F (1 year) (0°C~35°C)	4°F-113°F (1 month) (-20°C~45°C)32°F-86°F (1 year) (0°C~35°C)	4°F-113°F (1 month) (-20°C~45°C)32°F-86°F (1 year) (0°C~35°C)	4°F-113°F (1 month) (-20°C~45°C)32°F-86°F (1 year) (0°C~35°C)	4°F-113°F (1 month) (-20°C~45°C)32°F-86°F (1 year) (0°C~35°C)
General	Cell combination	16S1P	16S1P	12S1P	16S1P	16S1P
	Cell assembly	3.2V 105Ah	3.2V 105Ah	3.2V 105Ah	3.2V 105Ah	3.2V 173Ah

	Casing material	Anti-rust steel	Anti-rust steel	Anti-rust steel	Anti-rust steel	Anti-rust steel
	Net Weight	101 lbs (45.8 kg)	104.3 lbs (47.3 kg)	75.6 lbs (34.3 kg)	139.5 lbs (63.3 kg)	145.1 lbs (65.8 kg)
	Dimension (LWH)	14.76*13.3*10.74 in	21.97*9.76*10.98 in	13.11*11.84*10.67 in	22.05*10.75*10.75 in	17.64*13.39*10.75 in
	IP rate	IP65	IP65	IP65	IP65	IP65

Warnings

- Do not disassemble, reassemble, or attempt to repair the battery. Incorrect reassembly can lead to combustion or electric shock.
- If the battery is damaged, contact your place of purchase immediately.
- Never short-circuit the battery, use it near heat or water sources, or allow it to get wet.
- Do not insert nails or other objects into the battery, strike it, or weld directly on it.
- Do not use a severely damaged battery, or operate it with damaged cables or connectors.
- Do not use this product in explosive atmospheres (e.g., near flammable liquids, gases, or dust) or place it on flammable materials (e.g., carpeting, upholstery, paper, cardboard).
- Prevent the battery from freezing. Never charge a frozen battery—seek medical help right away if an incident occurs.
- In case of skin or eye contact with battery contents, rinse the affected area immediately with clean water and stop use.
- Do not continue using this product if it is damaged, waterlogged, or deformed.
- This product contains lithium-ion batteries. When it reaches the end of its service life, dispose of it properly in accordance with local laws and regulations.

Handling and Maintenance

Storage:

- For storage periods exceeding one month: Store the battery in a dry, well-ventilated area with temperatures between 32°F and 86°F.
- Do not store near corrosive substances, fire, or heat sources.
- To prevent over-discharge during long-term storage: Turn off the power and maintain a State of Charge (SOC) above 80%. Fully charge the battery before storage, and recharge it every 3 months.

Operation:

- **ATTENTION:** Before installing, make sure that all appliances are turned off.
- **Turn on/off the battery**

For power on, press the "MAIN SWITCH" once— a blue indicator light will illuminate immediately to confirm the battery is active and ready for use. To turn off the power, press and hold the "MAIN SWITCH" for 3 seconds, then release it; the blue indicator light will turn off to signal the battery power is fully disconnected. For anti-frequent cycling protection, wait 10 seconds after powering on before initiating any shutdown operation— this avoids straining the battery, extends its lifespan, and prevents damage from rapid on-off cycles.

- **Remaining battery power**

Once the battery is turned on, the battery meter will display the real-time state of charge (SOC) as a percentage.

- **Alarm**

The battery may shut down instantly due to over-voltage, over-temperature, overcurrent, undervoltage, or an external short circuit.

An alarm will sound when the battery charge drops below 30%—this means the battery needs charging.

When 10% is left, stop driving immediately and charge the battery as soon as possible.

Disclaimer: Once the gauge sounds an alarm, stop driving and charge the battery promptly. Continuing to drive may cause the golf cart to stop suddenly. We are not liable for any losses resulting from such sudden shutdowns.

- **Charging**

This battery must be used with the designated charger sold by us, using other chargers may result in insufficient charging or battery damage. We are not liable for any issues arising from the use of non-designated chargers.



Parallel Notice

(For all models)

- Please ensure two batteries are same Model PURE Energy batteries and do not parallel with other brand batteries.
- Maximum 2 packs of batteries connect in parallel.
- Be sure the voltage difference range of the two batteries needs to be within 0.1V. It's recommended that both batteries are fully charged when you connect them in parallel.
- Please ensure the two batteries are same age or new batteries purchased at the same time.
- Always keep your cart plugged in to the smart charger when not in use, and do not completely discharge the batteries.