

LiFePO4 Battery Specification

Model: R-T12100B-BSH-M-3761-00

The information included in this document is accurate at the time of publication. However, this product may change, upgrades or do other operations which will result in changes in some content, we may not have prior notice.

1. General Information

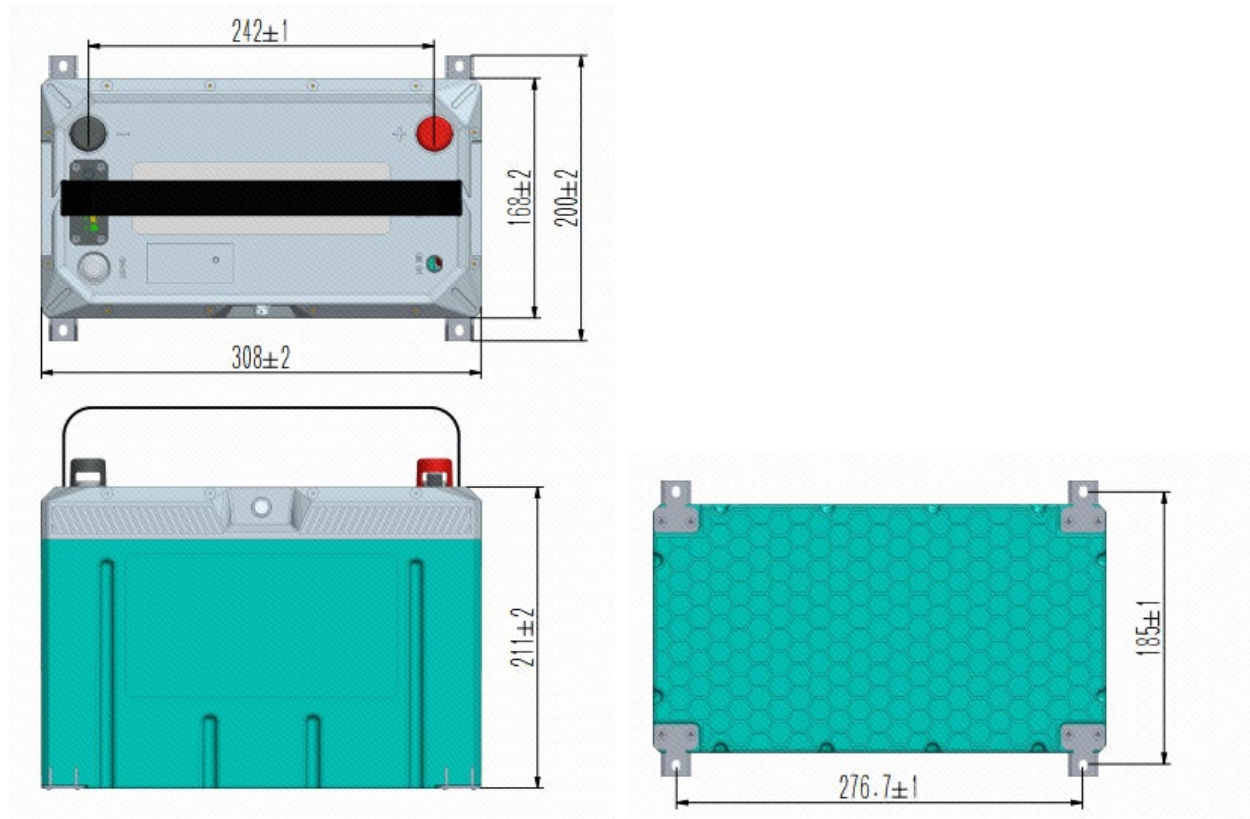
This specification defines the performance of rechargeable LiFePO4 battery pack **R-T12100B-BSH-M-3761-00** from ROCKSOLAR, it describes the type, performance, technical characteristics, warning and caution of the battery pack.

2. Battery Pack Specification (@ 25±2°C)

No.	Items	Parameters	
2.1	Nominal voltage	12.8V	
2.2	Nominal energy@0.2C	1.28 kWh	
2.3	Nominal capacity@0.2C	100Ah	
2.4	Internal resistance@1kHz AC	≤30 mohm	
2.5	Charge voltage	14.2V	
2.6	Float voltage range	13.8V	
2.7	Allowed MAX charge current	100A @25°C	
2.8	Recommend charge current	50A	
2.9	Allowed MAX discharge current	150A @25°C	
2.10	Recommend discharge current	100A	
2.11	Peak/Surge current limit	<300A@3S	
2.12	Short circuit protection	<1000A@500uS	
2.13	End Discharge	Load cut off	11~11.6V
		Re-connect voltage	12.8V
2.14	Communication	Port	CAN/RS485
		Bluetooth	TOPBAND
2.15	Parallel and Series connection	Support Max. 16 in parallel Max. 4 in series and 4 in parallel	
2.16	Terminal and torque	M8 bolt 8-10N.M	
2.17	IP rating	IP67	
2.18	Dimension	W 308±2 mm	
		H 211±2 mm	
		D 168±2 mm	
2.19	Weight (without accessories)	About 12kg	
2.20	Operation temperature ¹	-20~60°C	

4. Battery quick guide

4.1 Dimensions(The actual product color shall prevail)



4.2 Transport & Storage

- Do not violently shake, impact or squeeze, and prevent sun and rain during the transportation.
- Do light take and put and strictly prevent falling, rolling, and heavy pressure during loading and unloading.
- The battery should be placed in a dry, clean, dark, and well-ventilated indoor environment for long-term storage, and the recommended storage temperature range is $15 \sim 35^{\circ}\text{C}$.
- No harmful gases, flammable and explosive products and corrosive chemical substances in the storage location.
- The batteries should be stored and transported in close to 50% SOC.
- If do not use for a long time, the battery needs to be charged every 6 months according to the specs.
- No fall down, no pile up over 6 layers, and keep face up.

4.3 Warning & Tips.

Please read battery specification or manual carefully before use. Improper use may cause heat, fire, rupture, damage or capacity deterioration of the battery. SHENZHEN TOPBAND BATTERY CO.,LTD will not be responsible for any accidents caused by the usage without following our handling instructions.

Warning

- Battery must be far away from heat source, high voltage, and direct exposed to sunshine.
- Never throw the battery into water or fire.
- Never reverse two terminals when using the battery.
- Never connect the positive and negative of battery with conductor.
- Never knock, throw or trample the battery.
- Never disassemble the battery without manufacturer's permission and guidance.
- Never mixed battery with different capacity and brand;

Tips

- It is suggested to fully charged the battery per month to correct the battery SOC.
- Please charge your battery timely (≤ 2 day) when battery runs out of power.
- Please use the dedicated lithium battery charger to charge the battery.
- Stop using when battery emit peculiar smell, heating, distortion or appear any abnormality
- Please keep the battery far away from children or pets.
- If the battery pack leaks electrolyte, avoid contacting with the liquid or gas leakage if the electrolyte of battery pack leaks, please take these steps immediately:

Gas Inhalation: Evacuate the people in the contaminated area and seek medical aid as soon as possible.

Eye Contact: Flush your eye with clean and flowing water for 15 min, and seek medical aid as soon as possible.

Skin Contact: Thoroughly rinse the exposed area with soap and water to be sure no chemical or soap is left on them, and seek medical aid as soon as possible.

Swallowing: Try to induce vomiting, seeks medical aid as soon as possible immediately.

Fire: Please use carbon dioxide fire extinguisher rather than liquid to put out fires.