

DATASHEET GIGABOX 10S

LITHIUM IRON PHOSPHATE BATTERY - GIGABOX 10S

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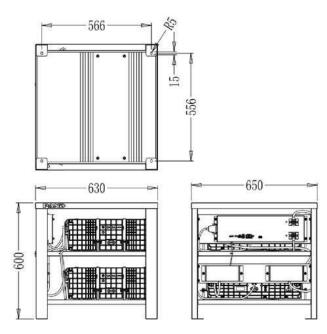
Features:

- High efficiency, energy saving and stable power supply;
- High performance, high safety lithium iron phosphate energy storage battery;
- Easy Installation and Uninterruptible Maintenance.
- The capacity configuration is flexible and changeable, supports up to 32 systems in parallel, and the capacity is up to 320kWh.
- Comply with IEC62619, IEC60730 etc. standard

Application:

- Renewable energy storage
- Smart power grids and microgrids system
- Distributed energy storage system
- Hybrid energy storage system such as solar and wind
- Home energy storage system
- Solar power generation grid/off-grid
- Energy storage system
- Emergency lighting system
- Generator and battery hybrid energy system

Dimension (mm)



Battery system technical parameters:

System parameter Total Energy Useable Energy Depth of Discharge Rated DC Output Power Maximum Charge Power Maximum Discharge Power Round-Trip Efficiency System composition Discharge method Maximum discharge current Charging method Maximum charging current Communication **Enclosure Protection Rating** Net Weight Charging Temperature Range **Discharge Temperature Range** Certificate & Safety Standard **Compatible Inverters**

Warranty

51.2V/200AH 10.0 kWh 9.0 kWh 90% 5.12kW 5.84 kW 7kW >93% 1P16S CC/CP 120A/60S CC/CP/CV 100A CAN/RS485 IP20 $135\pm5kg$ 0°C~+50°C -20°C~+55°C IEC 62619、IEC 610000

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5 years

• Cell technical parameters:

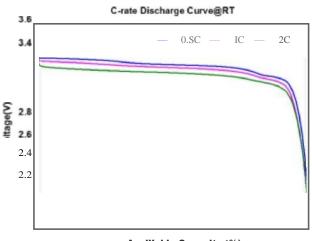
Type of battery Rated voltage/capacity Cell voltage range Weight Size(L*W*Hinm)

Operating temperature

Lithium iron phosphate battery 3.2V/200Ah 2.SV-3.65V 6.72 Kg 416.0 * I 45.5• 57.5 Charge . 0°C - * 50°C: Discharge ' -20°C - +55°C :

Discharge at Different Rate:

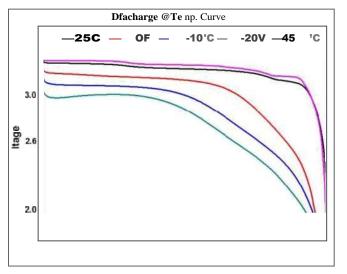
After fully charged at 23t2"C with 0.SC charge current, the cell is discharged at different C-rate to 2.00V.



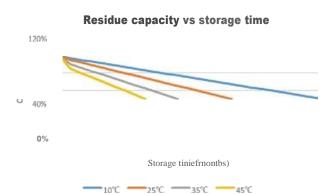
Aval¥able Capacity t%)

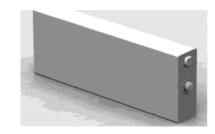
Discharge at Different Temperatures

After fully charged at $23z2 \ ^{\circ}C$ with $0.S\hat{C}$ charge current, then keep the cell at different temperature for 8 hours. The cell is discharged to 2.00V with 0.SC.



Residue capacity vs storage time at Different Temperatures

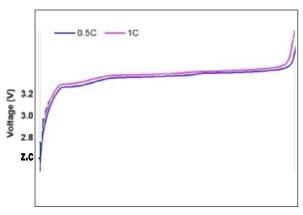




Charge at Different Rate:

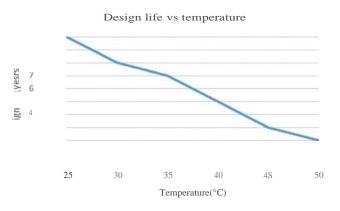
After fully discharged at 23+2 T with 0.SC discharge current, lhe cell is charged at different C-rate to 3.80V.

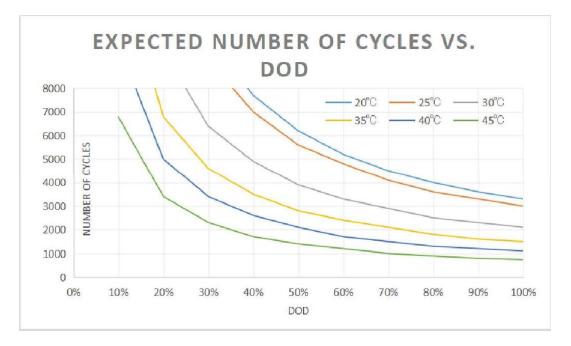
C-rate Charge Curve@RT



Avaibbls Capacity gh)

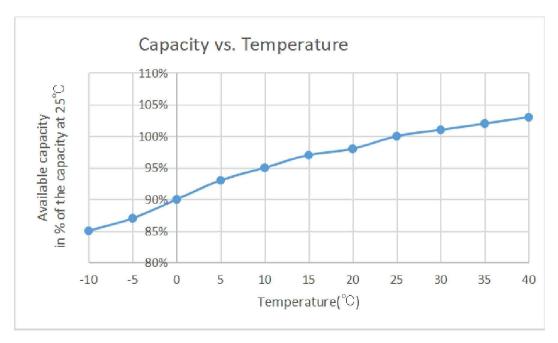
Design life (yesrs) at Different Temperatures





Expected number of cycles VS DOD at Different Temperatures

Battery Capacity at Different Temperatures

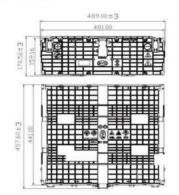


Battery module technical parameters

Nominal Voltage Nominal Capacity Length* Width* Height Weight Charging Method Charging Current **Discharging Method Discharging Current** Discharge Cut-off Voltage **Operating Temperature**

25.6V 200Ah 489*457.6*170.5mm About 56.3Kg CC/CP/CV 100A CC/CP 120A 2.5V/CELL Charging: 0~+50°C Discharging: -20~+55℃

Dimensions



Safety instructions

Observe the following precautions Battery handling guide

- :Risks of explosion
- Do not subject the battery pack to strong impacts.
- Do not crush or puncture the battery pack.
- Do not dispose of the battery pack in a fire.
- Risks of fire
- Do not expose the battery pack to temperatures in excess of 50°C.
- Do not place the battery pack near a heat source, such as a fireplace.
- Do not expose the battery pack to direct sunlight.
- Do not allow the battery connectors to touch conductive objects such as wires.
- Risks of electric shock
- Do not disassemble the battery pack.
- Do not touch the battery pack with wet hands.
- Do not expose the battery pack to moisture or liquids.
- Keep the battery pack away from children and animals.
- Risks of damage to the battery pack
- Do not allow the battery pack to get in contact with liquids.
- Do not subject the battery pack to high pressures.
- Do not place any objects on top of the battery pack.

Response to emergency

Situations

The product comprises multiple batteries that are designed to prevent hazards resulting from failures. However, we cannot guarantee their absolute safety. **Leaking Batteries**

If the product leaks electrolyte, avoid contact with the leaking liquid or gas. If one is exposed to the leaked substance, immediately perform the actions described below.

Inhalation: Evacuate the contaminated area, and seek medical attention.

Contact with eyes: Rinse eyes with flowing water for 15 minutes, and seek medical attention.

Contact with skin: Wash the affected area thoroughly with soap and water, and seek medical attention

Ingestion: Induce vomiting, and seek medical attention.

Wet the product:

If the product is wet or submerged in water, do not try to access it. Contact PAND or your distributor for technical assistance.

Damaged the product

Damaged the product are dangerous and must be handled with extreme caution. They are not fit for use and may pose a danger to people or property. If the product seems to be damaged, pack it in its original container, and then return it to PAND.

- Use the battery pack only as directed. Do not use the battery pack if it is defective, appears cracked,
- broken or otherwise
- damaged, or fails to operate.
- Do not attempt to open, disassemble, repair, tamper with, or modify the battery
- pack. The battery pack is not user serviceable.

To protect the battery pack and its components from damage when transporting,

handle with care.

Do not impact, pull, drag or step on the battery pack. Do not subject it to any strong

force.

- Do not insert foreign objects into any part of the battery pack.
- Do not use cleaning solvents to clean the battery pack.



Fire:

In case of fires, it is recommended to have an ABC or carbon dioxide extinguisher.

If a fire breaks out in the place where the product is installed, perform the following countermeasures:

- 1. Extinguish the fire before the product catches fire.
- 2. If it is nearly impossible to extinguish the fire but you have time, move the product to a safe area before it catches fire.
- 3. If the product has caught fire, do not try to extinguish the fire on the product, but evacuate people immediately.



When the product is burning, it produces poisonous gases.