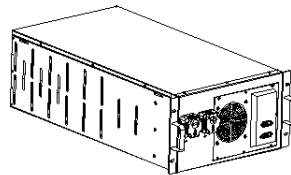
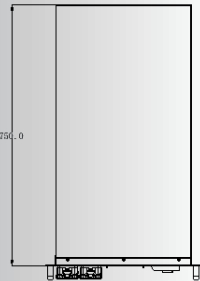
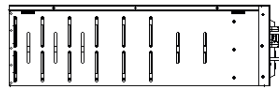
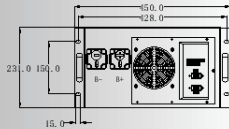


Battery System Specification



51.2V280Ah
Battery module



1. Overview

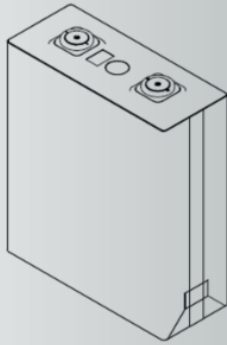
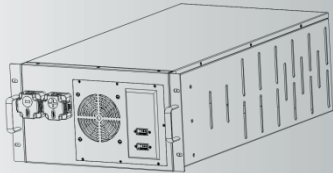
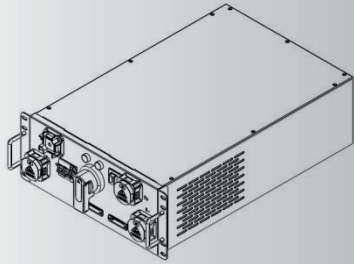
EUBox200R is a Lithium iron phosphate battery which designed for energy storage system. This battery system adopts a modular design and generally consists of two modules: a high-voltage control box and a battery box. And this product has big advantages on safety, cycle life, energy density, fast charging, and environmental protection.

2. Advantages

The battery energy storage system consists of a rack, a high-voltage control box, and battery box.

- Packed with high performance LFP single cell, long life, safety and wide temperature range
- High energy density, small size, light weight, no pollution;
- Adopting a standard 19 inch rack design and modular design;
- Integrated communication interface, CAN2and RS485 communicate with Inverter;
- A high-precision and high-performance battery management system achieves efficient operation;
- Standard pack, easily for installation, rapid deployment and capacity expansion.
- BMS provides complete management and protection for the battery.
- Voltage warning and protection for module and each single cell.
- Current warning and protection, and the maximum operating current can be customized.
- Temperature warning and protection.
- Battery module SOC and SOH calculation, display the accurate battery status.
- Supports maximum 10 battery clusters in parallel, up to 2000kWh

3. Battery parameter

Single Cell	Cell Type	LiFePO4 Aluminum Shell	
	Rated	3.2V/280Ah	
	Operating voltage range	2.8~3.6V	
	Dimension (T*W*H)	47.8*173.9*132.6mm	
	Weight	5.55±0.28kg	
	Rated Charging/ Discharging rate(Max)	0.5C	
	Impedance(1kHz)	≤0.2mΩ	
Battery Module	Module Voltage	51.2V	
	Rated capacity	280Ah	
	Pack	1P16S	
	BMU inside	1set	
	Dimension (W*D*H)	1160*780*245mm	
	Weight	\	
	Cooling mode	Air cooling	
	Power Terminal	Plug-in type	
High-Voltage Box	Protection	Relays, fuses, and MCB	
	Balance	Passive Balancing	
	SOC Accuracy	<5%	
	Dimension (W*D*H)	442*730*180mm	
	Weight	23kg	
	Power Terminal	screw fixing	

Battery Energy Storage System

Model	EUBox 200R
Cell Type	LFP
Battery Moudule Nominal Voltage	51.2V
Battery Module Energy	14.336kWh
Rated Voltage	716.8V
Voltage Range	627.2-806.4V
Rated Capacity	280Ah
Recommend Charge/Discharge Current	140/140A
Rated Energy	200.7kWh
MAX.Continuous Charge/Discharge Current	160/160A
Operating Temperature	-20- 50℃
Operating Humidity	5%-95%R.H
Cooling Mode	Natural cooling
Firefighting System	Integrated
Dimension(W*D*H)	1050*1310*2340mm
IP Rating	IP20
Weight	2300kg
Anticorrosion Grade	StandardC2
Communication port	CAN, RS485, ETH
Parallel	MAX. 10 cabinets
Compliance	IEC62619,CE、 CE-EMC、 UN38.3、 MSDS

4. Packing List

No.	Item	Specification	Number	Remarks
1	LiFePO4 battery pack	51.2V/280Ah battery pack	14	
2	BMM	EU 16S Battery management unit	14	Integrated in the battery pack
3	High voltage box	High voltage box includes BCM	1	
4	HMI	LCD touch screen	1	Integrated on the HVB
5	Power cable	Power cable between battery racks and CBMS	1set	
6	Communication cable	Communication cable between battery module and BMU	1set	
7	User manual	User manual	1	

5. SAFETY

The EUBox200R is a high voltage DC system, operated by skilled/qualified personnel only. Read all safety instructions carefully prior to any work and observe them at all times when working on with the system.

Incorrect operation or work may cause:

- ◆ injury or death to the operator or a third party;
- ◆ damage to the system hardware and other properties belonging to the operator or a third party.

Skills of Qualified Personnel

Qualified personnel must have the following skills:

- ✓ training in the installation and commissioning of the electrical system, as well as the dealing with hazards;
- ✓ knowledge of this manual and other related documents;
- ✓ knowledge of the local regulations and directives.