

This unit is very heavy

This unit tips the scales at a whopping 233KG, please ensure you have adequate lifting equipment in place.



USER MANUAL

32KWh 51.2V 628Ah LIFEP04 BATTERY

OUR PRODUCTS ARE ALWAYS EVOLVING, SO THE UNIT DEPICTED ABOVE MAY DIFFER SLIGHTLY FROM THE UNIT YOU RECEIVE.

Battery Voltage Calculation:

Voltage Sampling: The battery's voltage is measured with a deviation of $\pm 20\text{mV}$ over a 32-sample battery test.

Battery and Ambient Temperature Detection:

Temperature Sensors:

The system has 4 temperature sensors monitoring the battery temperature.

- 1 sensor for ambient (surrounding) temperature.
- 1 sensor for the temperature of the MOS (Metal-Oxide-Semiconductor) components.
- Temperature Deviation: The deviation in temperature readings is $\pm 2^\circ\text{C}$.

Battery Capacity and Cycle Count:

Capacity Calibration: To determine the actual battery capacity, a full charge/discharge cycle is completed.

Remaining Capacity Estimation: The system estimates the remaining capacity with a deviation of $\pm 5\%$.

Communication Interface:

Monitoring and Control: Use a PC to monitor the battery pack, control operations, and adjust settings remotely.

Historical Data Recording and Management:

Data Recording: When abnormalities arise, the status and alarm information are recorded and saved.

Fault Data: The system can store up to 500 historical fault records.

Battery Management System (BMS) Parameter Settings:

The BMS allows the configuration of various parameters, including:

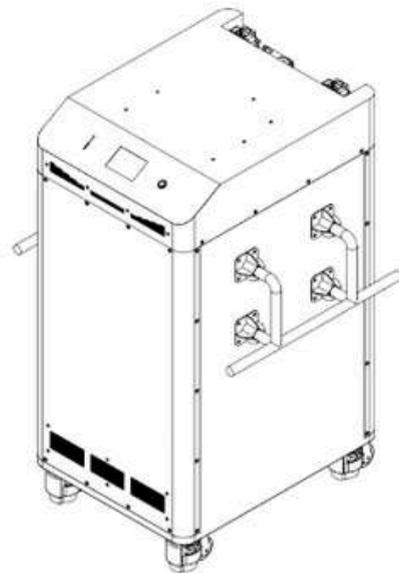
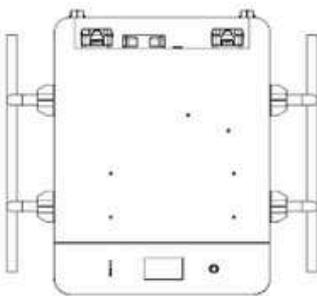
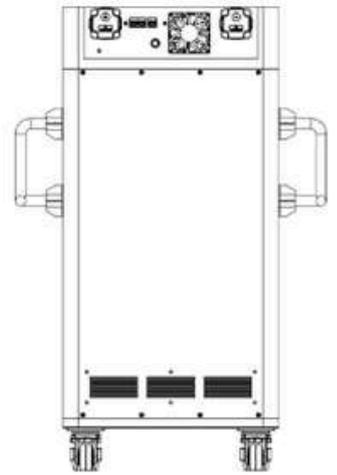
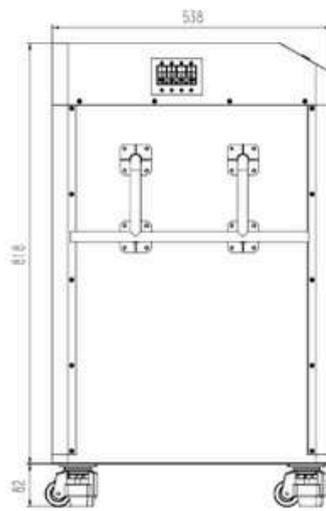
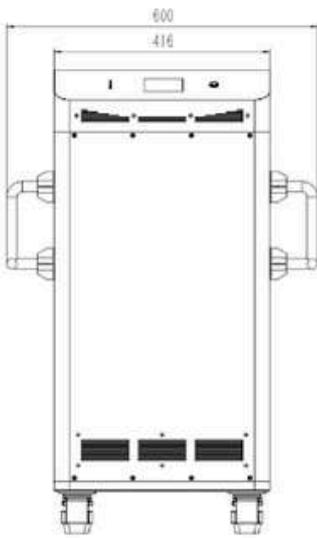
- Battery overvoltage/undervoltage
- Total battery voltage overvoltage/undervoltage
- Charge/discharge overcurrent
- Battery high/low temperature thresholds
- Battery capacity
- Operational mode
- Charge/discharge limit currents.

These settings can be adjusted within the battery monitoring system.

Multiple Protection Functions:

The battery has several protective features to prevent damage, including:

- Hardware protection
- Battery protection
- High/low temperature protection
- Output short-circuit protection



Battery Configuration	2P16S
Rated voltage	51.2V
Operating voltage range	43.2V~58.4V
Rated capacity	628Ah
Energy	32.15KWh
Standard charge/discharge current	150A @25±2°C
Maximum charging current	300A @25±2°C
Maximum discharge current	300A @25±2°C
Operating temperature	0~40°C (Charge)
	-20~40°C (Discharge)
Storage temperature and humidity	-10°C~35°C (stored within one month) 25 ±2 °C (stored within three months) 65%±20% RH
Dimensions (L x W x H)	(538)×(416)×(818)mm
Weight	230Kg±3kg
Cycle life	8000 cycles @25°C 100A charge and discharge current 80% D
IP Rating	IP 20
Communication	CAN & RS485
Altitude	0-3000m
Humidity range	5~95%