

24V RACK-MOUNTED LI-ION BATTERY

MODELS

BTESF24V100-R
 BTESF24V200-R



SAFETY

- Automotive-grade pack technology and production process to guarantee safety
- Directional explosion-proof valve design to isolate rarely occurring cell failures, ensuring 100% safety
- Comprehensive thermal simulation and testing to control the temperature rise of each cell within the designed specification in the case of high-rate discharge

BATTERY MANAGEMENT SYSTEM (BMS)

- Separate control and protection for the charge and discharge processes to maximize system availability
- Real-time detection of voltage, current, temperature and a variety of protection
- Support for parallel connection

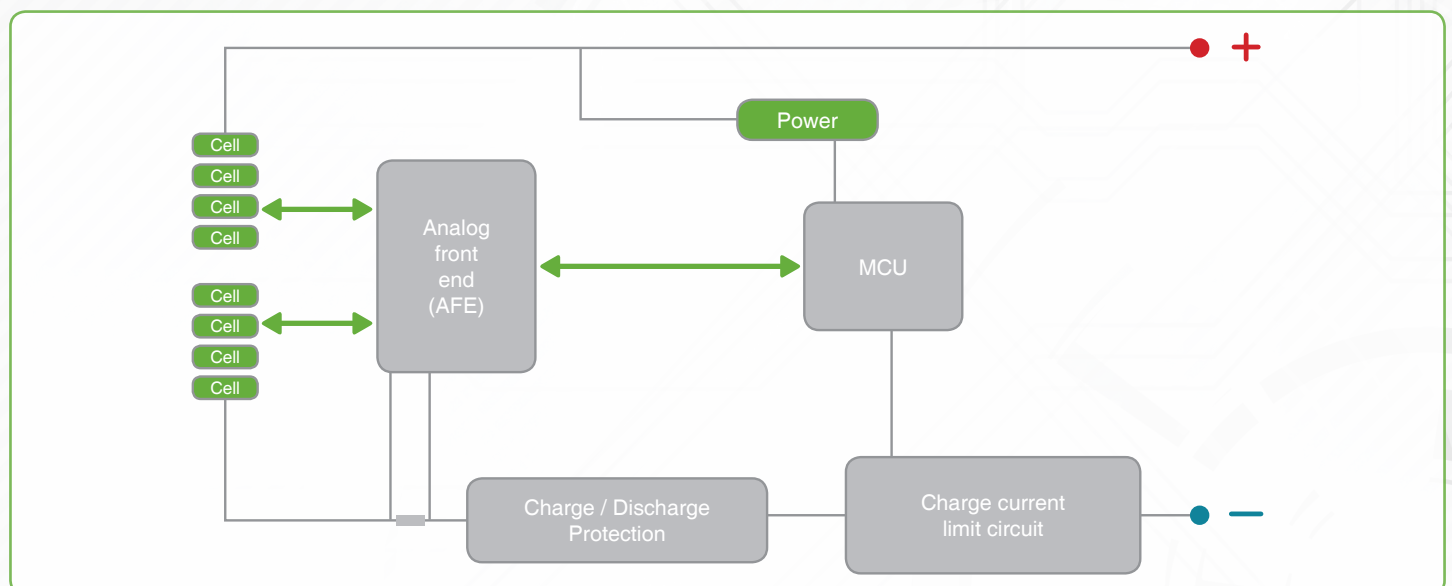
CELL

- Lithium Iron Phosphate (LFP) prismatic cells with high safety and reliability
- Fully automated production following a mature and stable process, ensuring consistent charge/discharge performance and life span
- IEC62133, U, and UN38.3 certifications

COMMUNICATION AND PROTOCOL

- RS485 and RS232 interfaces
- Optional accessories: RS485-to-SNMP module

CIRCUIT TOPOLOGY



PRODUCT SPECIFICATIONS

MODEL	BTESF24V100-R	BTESF24V200-R
Normal Voltage (V)	25.6	
Rated Capacity (Ah)	100	200
Total Energy (Wh)	2560	5120
Recharge Voltage (V)	27.6	
Max. Recharge Current (A)	① 20	② 20
Max. Discharge Current (A)	50	100
EOD Voltage (V)	22	
Peak Discharge Power (W)-3s	3360	7680
Dimension: D x W x H (mm)	442*400*133	442*430*175
Weight (kg)	28	52
Protection Class	IP20	
Working Temperature Range (°C)	Recharge: 0 to +55 Discharge: -20 to +55	
Humidity	0 ~ 95 % RH (non-condensing)	
Protection	Over voltage protection (Cell & System) Low voltage protection (Cell & System) High temperature protection Low temperature protection Short circuit protection Over current protection	
Parallel or Series	Support parallel only with RS485 cables connected and address DIP switches correctly set-up	
Warranty	Warranty 3500 cycles to 80% DOD. Refer to AutoX BAK warranty document for extended warranty	

① For parallel connection, the charge current must be limited to 10A for 100Ah batteries.

② For parallel connection, the charge current must be limited to 20A for 200Ah batteries.

This series combines safe and reliable LFP prismatic cells with dedicated BMS to guarantee high reliability safety and scalability. The product can be installed in a 19" or 21" standard cabinet or rack.

The expected cycle life for these batteries when installed, operated and maintained as per the manual(s) are as follows:

- At $\leq 25^{\circ}\text{C}$ and $\leq 0.3\text{C}$ charge/discharge current:
 - $\leq 60\%$ DOD, 7000 cycles
 - $\leq 80\%$ DOD, 6000 cycles
 - $\leq 90\%$ DOD, 5000 cycles
- At $\leq 45^{\circ}\text{C}$ and $\leq 0.3\text{C}$ charge/discharge current:
 - $\leq 60\%$ DOD, 5000 cycles
 - $\leq 80\%$ DOD, 4000 cycles
 - $\leq 90\%$ DOD, 3000 cycles