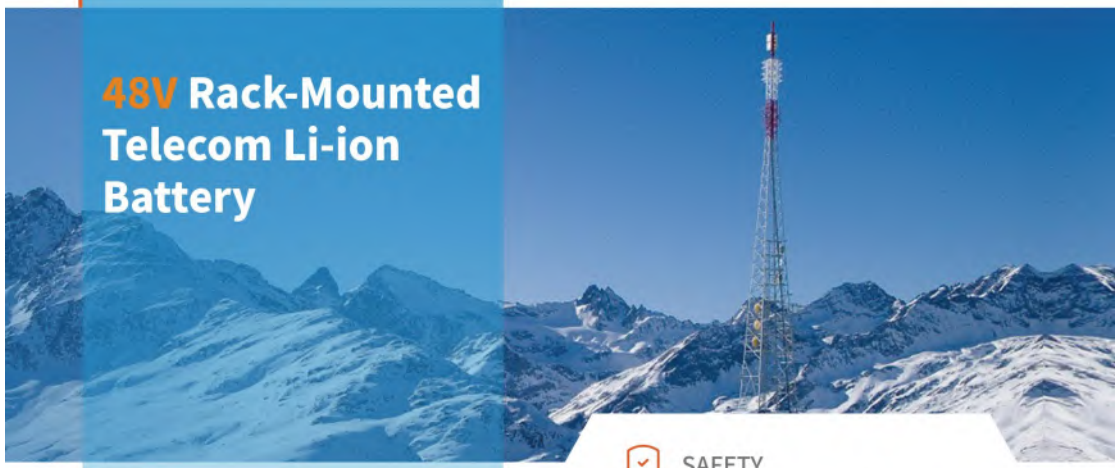
48V Rack-Mounted Telecom Li-ion Battery



CELL

+ RAJA 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

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

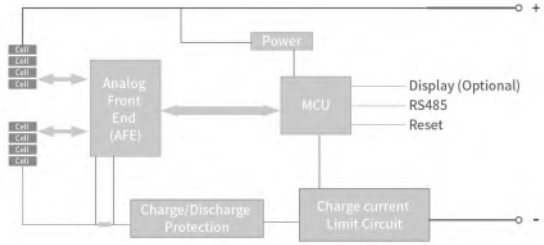
BMS

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

COMMUNICATION AND PROTOCOL

+ RS485 and RS232 interfaces for network connection
+ A variety of optional accessories (LCD Display, SNMP interfaces, Gyroscope sensor, etc.)

Circuit Topology



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Pictures for reference only. Please refer to the actual products

Technical Specifications				
Model	BTESF48V100-R	BTESF48V100-R(E)	BTESF48V150-R5	BTESF48V150-R5(E)
Rated Voltage[V]	51.2	48	51.2	48
Rated Capacity[Ah]	100	100	150	150
Total Energy[Wh]	5120	4800	7680	7200
Recharge Voltage[V]	58.4	54.6	58.4	54.6
Max. Recharge Current[A]①	100	100	100	100
EOD Voltage[V]	43.2	40.5	43.2	40.5
Peak Discharge Power[W]-3S	6912	6240	6912	6240
Dimension[W*D*H, mm]	442*525*133	442*525*133	442*500*230	442*500*230
Weight[Kg]	43	41	70	68
Protection Class	IP20			
Working Temperature Range [°C]	Recharge：0 to +45 Discharge：-20 to +55			
Humidity	0 ~ 95 % RH (non-condensing)			
Communication ②	RS485 (Modbus Protocol V1.3) /RS232			
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			
Other Function	Gyroscope Sensor③			

Notes：

① For parallel connection, the charge current limiting function must be enabled to limit the charge current to 20A .

②RS485 is the default setting.

③Gyroscope Sensor: If the battery moves continue more than 1 minute, it will be shutdown. And it will be turned on via upper computer software ,connect to the computer through RS232.

■The RAJA Silverbric series rack-mounted telecom li-ion batteries are designed for the telecommunications market. This series combines safe and reliable RAJA LFP prismatic cells with dedicated BMS to guarantee high reliability safety and scalability when used with different telecommunication systems. New li-ion batteries can be used with old ones in a system. The product can be installed in a 19" or 21" standard cabinet or rack.

■This series provides two types of configuration to adapt to the voltage limits of different power supplies.