

CF48100T-3U



Products Introduction

Adopting advanced intelligent BMS management system, with overcharge, over discharge, overcurrent, temperature and other alarm and protection functions, historical data storage function. This product has outstanding advantages in the field of communication backup power supply, specific occasions and high rate discharge occasions, and is widely used in important places such as data centers and communication centers.

Product features



Good High Temperature Performance

Ambient temperature < 38°C
no need for air-conditioning cooling,
saving energy



Intelligent Protection

With voltage, current and
temperature intelligent
protection function



Life Span

3000times@0.5C
80%DOD, 25°C



Easy Operation and Maintenance

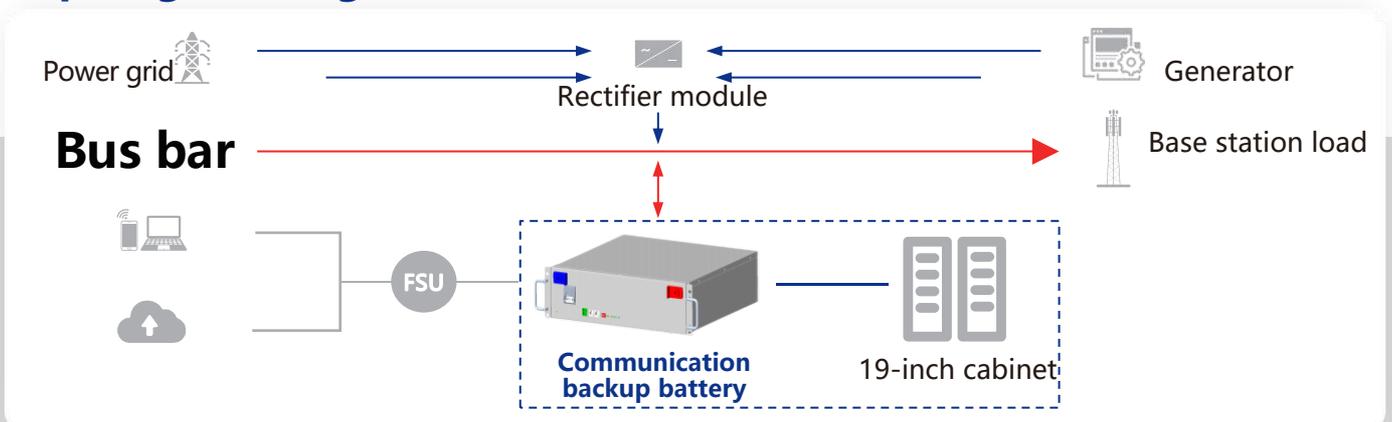
Integrated BMS design, battery
supports self-management SOC, SOH
management and other functions



Other Functions

Equipped with MCB and
auxiliary contact detection,

Topological diagram



BMS Introduction

	Content
Communication Interface	RS485/RS232/CAN
Signal Acquisition Function	It has acquisitions of single voltage and external busbar voltage、 battery module total voltage,charging/discharging current,surface temperature of battery cell, BMS board temperature for each series.
Battery Cell Equalization Function	The battery has a passive equalization function. When the cell voltage difference exceeds a certain value during charging, the equalization function will be started
Charging Current Limit Function	It has the ability to automatically enter current-limiting charging when the battery is detected with low voltage, high voltage,low temperature, high temperature, poor consistency, or charging overcurrent protection.
Voltage Acquisition Accuracy	0-5V, Detection accuracy≤10mV; 0-60V Detection accuracy≤0.5%
Current Acquisition Accuracy	Detection accuracy≤1% (0.5Ccharging/discharging)
Other Functions	Equipped with MCB and auxiliary contact detection
System Device Failure Alarm	It has failure detection and alarm function for key components of BMS board. While it is detected with temperature sensor failure, voltage detection failures, charge and discharge MOS failure, an alarm will be generated and the charge and discharge loops will be disconnected (if the charge and discharge loop is damaged, it is not required to disconnect), the battery cannot recover automatically, and all the indicators flash to prompt.
Histroical Storage Function	500 historical records, 10000 historical records and life-cycle storage are optional; Independent storage space; BMS has power failure preservation capability; Historical data records include battery voltage, current, ambient temperature, SOC, SOH, cycle times, cumulative discharge capacity and other data

Module Specification and Parameters

Connection method	1P15S	1P16S
Rated Energy	4800Wh	5120Wh
Rated Capacity	100Ah	100Ah
Rated Voltage	48V	48V
Voltage Range	42V-52.5V	43.2V-56.8V
Charging Current	50A	50A
Discharging Current	100A	100A
Operating Tempereure	Charging: 0-50°C; Discharging: -20-55°C; Storage: -30-45°C	
Self-discharging Rate	≤3% (0-30°C/3months)	≤3% (0-30°C/3months)
Dimension	440×440×130mm(W*D*H)±2mm	440×440×130mm(W*D*H)±2mm
Weight	41±1Kg	43±1Kg
Life Span	3000 times @80%DOD, 0.5C/0.5C	3000 times @80%DOD, 0.5C/0.5C



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