Li-ion Battery System

Overview

Designed especially for 5G telecom sites - wide range of charging voltage, fast charging, long life and intelligent management.

Advantages

- Pole and wall mounting
- Easy to install and expand, flexible in power backup
- Flexible design, power unit and battery unit support modular expansion
- Communication Interface : RS485, Dry contact
- Protection class: IP65
- Outer casing: high strength aluminium alloy
- 10 minutes rapid deployment by one person
- Operating temperature range -40°C to +55°C
- Maintenance-free, natural cooling

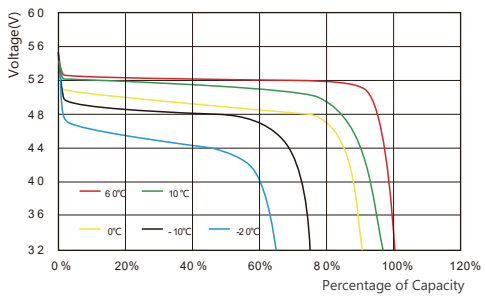
Specifications

Nominal Characteristics		
Nominal Voltage		48V
Typical Capacity		20Ah(25℃)
Cell Type		LFP
Cell Qty		16S1P
Typical Energy		1024Wh
Volumetric Energy Density		53.9Wh/dm^3
Gravimetric Energy Density		53.1Wh/kg
Dimensions	Height	430mm
	Width	340mm
	Depth	130mm
Typical Weight		Approx. 19.3kg①
Electrical Characteristics		
Voltage Window		43.2~57.6V
Charge Voltage Range		56.0~57.6V
Max. Permanent Discharge Current		20A
Max. Permanent Charge Current		20A
Floating Charging Current		≤40mA
Charge Efficiency		≥97% (+25°C)
Communication Interface (Optional)		RS485, Dry contact

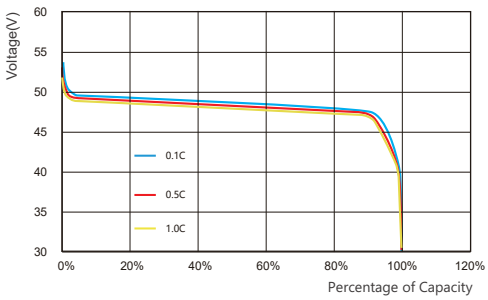
BMS Characteristics	
SOC Calculation Accuracy	≤5%
Max. Quantity of Parallel Connection	10
Balanced Mode	Passive Balanced
Accuracy and Range of Temperature Acquisition	±1°C
Operation Environment	
Charge Temperature	0°C to +45°C②
Discharge Temperature	-40℃ to +55°C
Storage Temperature	-40°C to +55°C
Protection Class	IP65
Heat Dissipation Mode	Natural Cooling

① ···The weight of the product shown in this datasheet is for the battery only excluding cables and connectors.
② ···Heating film is optional, then charge temperature can be -20°C to +45°C.

Performance Curve



Discharge voltage vs. discharge time



Discharge Curve at Different Rate（25℃）