

Li-ion Battery System

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	50Ah(25°C)	
Cell Type	LFP	
Cell Qty	16S1P	
Typical Energy	2560Wh	
Volumetric Energy Density	177.8Wh/dm ³	
Gravimetric Energy Density	91.4Wh/kg	
Dimensions	Height	430mm
	Width	340mm
	Depth	130mm
Typical Weight	Approx. 29.8kg ^①	
Electrical Characteristics		
Voltage Window	43.2~57.6V	
Charge Voltage Range	56.0~57.6V	
Max. Permanent Discharge Current	50A	
Max. Permanent Charge Current	50A	
Floating Charging Current	≤100mA	
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°C ^②
Discharge Temperature	-40°C to +55°C
Storage Temperature	-40°C to +55°C
Protection Class	IP65
Heat Dissipation Mode	Natural Cooling

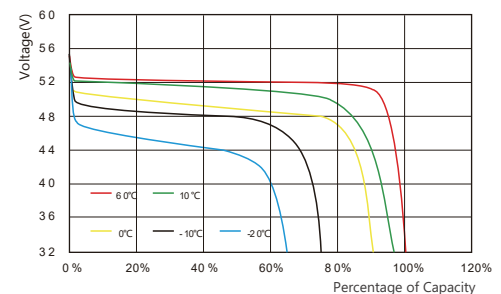
^① - The weight of the product shown in this datasheet is for the battery only excluding cables and connectors.
^② - Heating film is optional, then charge temperature can be -20°C to +45°C.

Overview

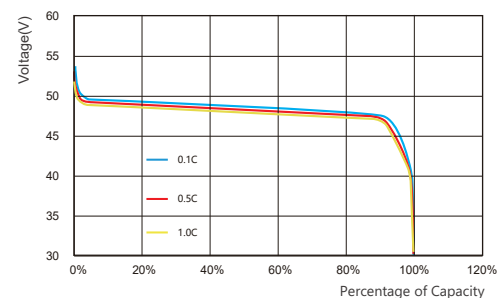
Designed especially for 5G telecom sites - wide range of charging voltage, fast charging, long life and intelligent management.



Performance Curve



Discharge voltage vs. discharge time



Discharge Curve at Different Rate (25°C)