

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		SCIFP4850DB
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

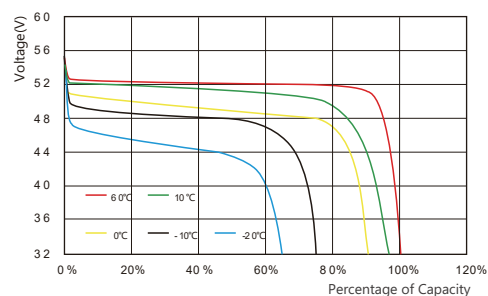
① -The weight of the product shown in this datasheet is for the battery only excluding cables and connectors.
 ② -Heating film is optional, then charge temperature can be -20°C to +45°C.

Overview

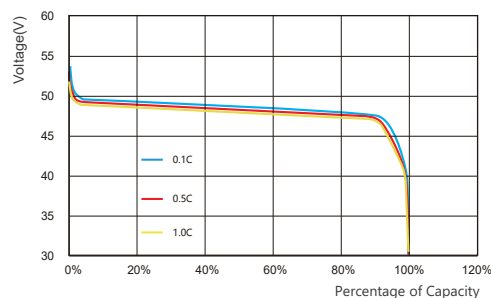
Designed especially for 5G telecom sites - wide range of charging voltage, fast charging, long life and intelligent management.



Performance Curve



Discharge voltage vs. discharge time



Discharge Curve at Different Rate (25°C)