



48V 50Ah

TELECOM BATTERY

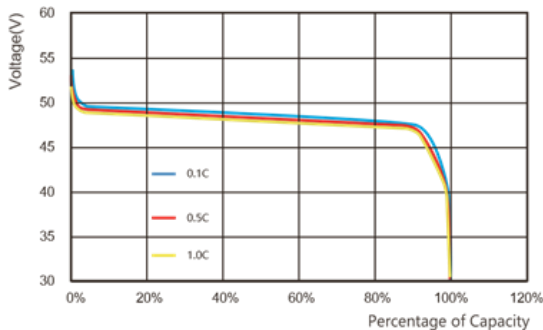


“Join the green revolution and harness the unlimited power of the sun with solar energy solutions from eTUIT”.

APPLICATION AND KEY BENEFITS

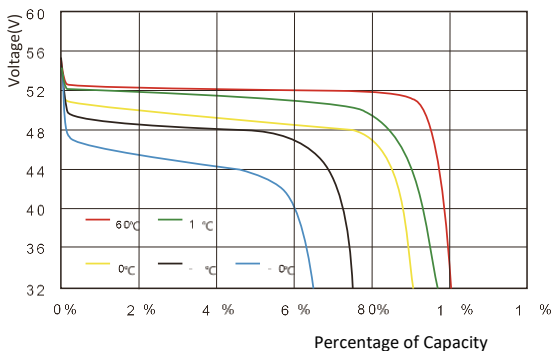
- Designed especially for 5G telecom sites - wide range of charging voltage, fast charging, long-life and intelligent management.
- Ideal for:
 - Pole and wall mounting
 - Easy to install and expand, flexible in power backup
 - Flexible design, power unit and battery unit support modular expansion
 - 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
- Compliant to UL, CE, ILAC, VDS.

Discharge voltage vs Discharge time



Discharge Curve at Different Rate (25 C)

Charging Characteristics



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
Nominal Voltage	48V
Typical Capacity	50Ah(25°C)
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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	Appro x. 29.8kg

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
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.

ENVIRONMENTAL PROTECTION

THE ENVIRONMENTAL LABEL



This mark indicates that the product described in this manual does not contain toxic and hazardous substances or elements. It is a green product, and can be recycled after being discarded, and should not be discarded incorrectly.

RECYCLE



This mark indicates that the product cannot be disposed of with other waste.

Please refer to the Product recycling Guidelines

After the battery life is terminated, the battery can continue to be used after it is recycled by a professional recycling organization. Do not discard incorrectly.



Recycling must be performed according to national and local regulations for end-of-life treatment of Electrical and Electronic equipment. Batteries must be handled separately from other waste and kept away from open fire. All work must be done according to good operating practices and strict safety standards, following all relevant health and safety aspects.

ABBREVIATIONS

H Height	SOC State of Charge	W Width
ESN equipment serial number	D Depth	NTC Negative Temperature Coefficient
UPS Uninterruptible Power System	OCV Open Circuit Voltage	PCS Power Conversion System
DOD Depth of Discharge	ESM Energy Storage Module	ESN Equipment Serial Number
EOD End Of Discharge	EPO Emergency Power Off	UPS Uninterruptible Power System

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CHANGE HISTORY

Changes between document issues are cumulative. The latest document issue contains all the changes made in previous issues.

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This version is the first official release of 2024.

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