



# 48V 200Ah

## INTEGRATED RACK LITHIUM BATTERY PACK DATA SHEET



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

## THE MOST EFFICIENT RACK-MOUNTED TELECOM BATTERY

The eTUIT 48V Rack-mounted telecom lithium batteries are designed for the telecommunication market. This series combines safe and reliable prismatic cells with a dedicated Battery Management System (BMS) to provide high system reliability, safety, and scalability when used with different telecommunication devices. Within this product, new lithium batteries can be used with old ones at the same time. The product can be installed in a 19" or 21" standard cabinet or rack

## 48V RACK-MOUNTED BATTERY FOR TELECOMMUNICATION

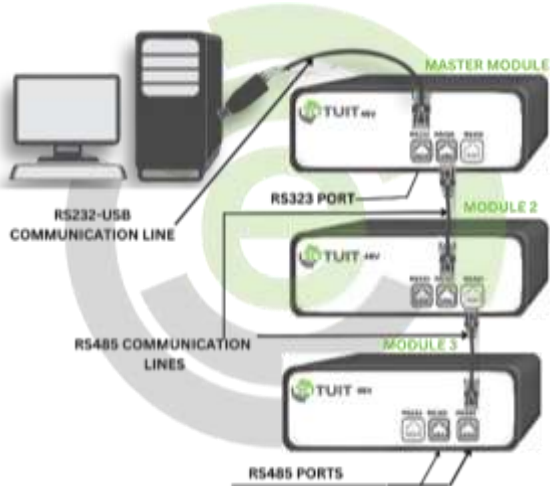
### APPLICATION SCENARIOS

- TRADITIONAL TELECOM BASE STATIONS:
- SQUARE CABINS, CABINETS, AND TOWER, ETC
- 5G TELECOM BASE STATIONS
- 48V BACKUP ENERGY STORAGE SYSTEMS
- 1-6KW UPS
- DATA CENTRE
- SOLAR INVERTER
- HOME ENERGY STORAGE

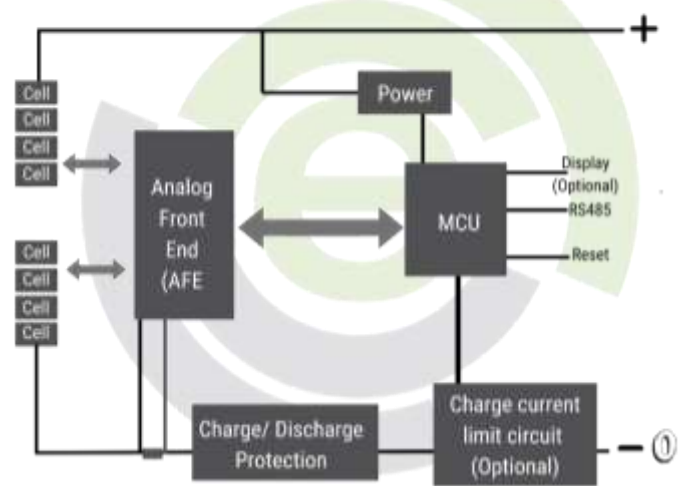
### KEY FEATURES

- SINGLE CONTROL AND PROTECTION FOR CHARGE AND DISCHARGE PROCESSES
- REAL-TIME DETECTION OF THE VOLTAGE, CURRENT, TEMPERATURE, SOH, AND SOC
- MAINTENANCE FRIENDLY

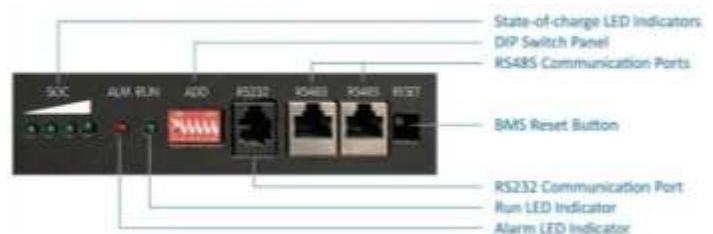
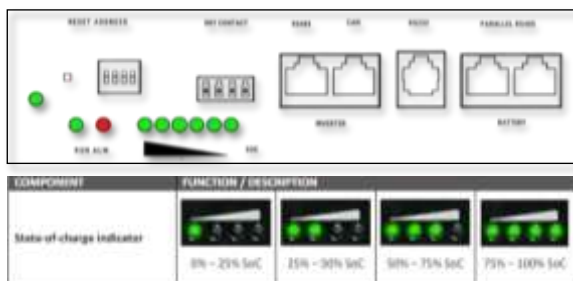
### PARALLEL CONNECTION



### CIRCUIT TOPOLOGY



### CAPACITY INDICATOR LIGHTS



## TECHNICAL SPECIFICATIONS

DESCRIPTION 48V Rack-Mounted Lithium Battery– Silverbric Series  
 MODEL MCS Group\_ eTUIT Lithium 48V 200Ah Rack-Mounted

PHYSICAL	eTUIT 48V 200Ah
MEASUREMENTS (W*D*H, mm)	442*520*230
WEIGHT (kg)	86
CONSTRUCTION	eTUIT 48V 200Ah
CELL MATERIAL	LFP
IP GRADE	IP20
TECHNICAL	eTUIT 48V 200Ah
RELATED VOLTAGE (V)	48
RELATED CAPACITY (Ah)	200
TOTAL ENERGY (Wh)	9600
CHARGE VOLTAGE (V)	54
MAX. DISCHARGE/CHARGE CURRENT (A)	100/100
CHARGE CURRENT LIMIT (A)	20
EOD VOLTAGE (V)	37.5
PEAK DISCHARGE POWER (W, 3s)	6300
WORKING TEMPERATURE (°C)	Recharge : 0 to +50    Discharge : -20 to +55
RELATIVE HUMIDITY	0 ~ 95%RH (non-condensing)
CONNECTIONS	eTUIT 48V 200Ah
COMMUNICATION PORT	RS485 (Modbus)/RS232
CONNECTION	Support for parallel connection
PROTECTION	eTUIT 48V 200Ah
Over voltage protection (cell & system) Low voltage protection (cell & system)	Short circuit protection Over-current protection High-temperature protection Low-temperature protection

## CERTIFICATION

Safety	CE/UN38.3
Hazardous Materials Classification	Class 9
Transportation	UN38.3
Protection Level	IP22, IP54 (Optional)

## eTUIT BATTERY LABELS



Model:  
 Rated Capacity:  
 Float Voltage (V):  
 Charging Voltage(V):  
 Charging Current Range (A):  
 Discharging current Range (A):  
 Charging Temperature (°C):  
 Discharging temperature (°C):  
 MCS GROUP HOLDINGS. LTD

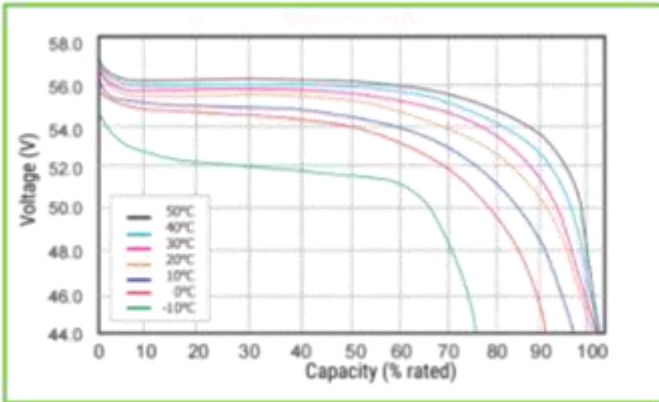
eTUIT 48V 200A-R  
 200Ah  
 51.00-51.75  
 52.5-54.00  
 ≤ 100  
 ≤ 100  
 0-55  
 20-60



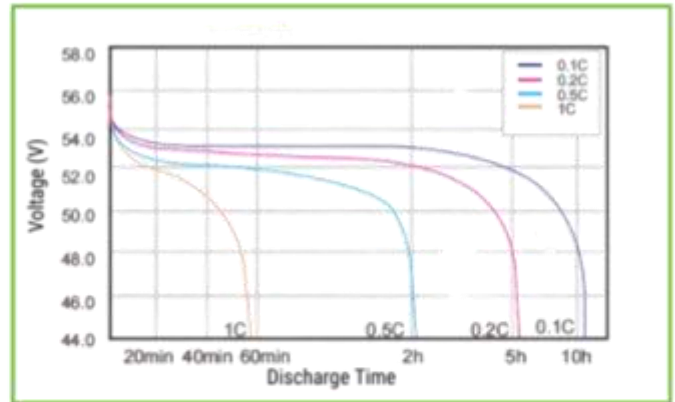
DO NOT DISMANTLE OR MAINTAIN BY SELF!  
 USE THE BATTERY ACCORDING TO THE PRODUCT MANUAL!

## Voltage Curve

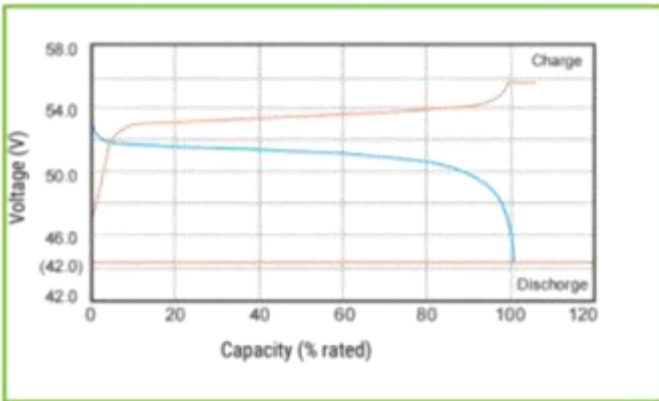
Different Temperature Discharge Curve (0.5C)



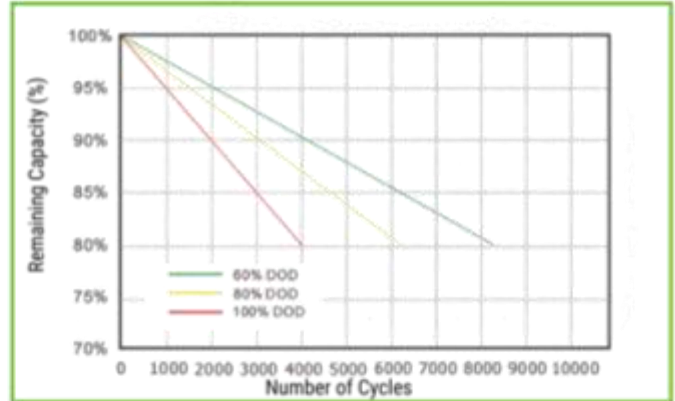
Different Rate Discharge Curve @ 25°C



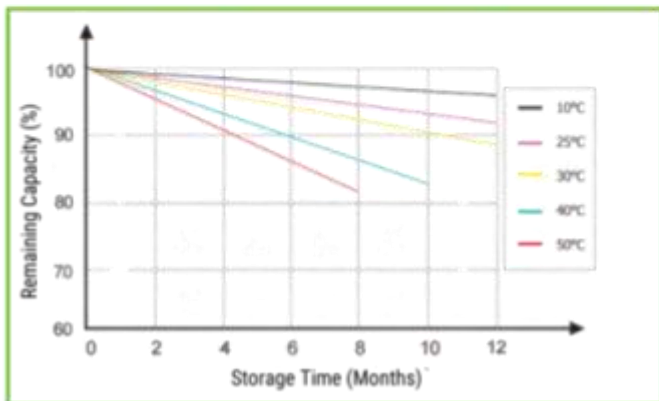
Charge and Discharge at (25°C, 0.5)



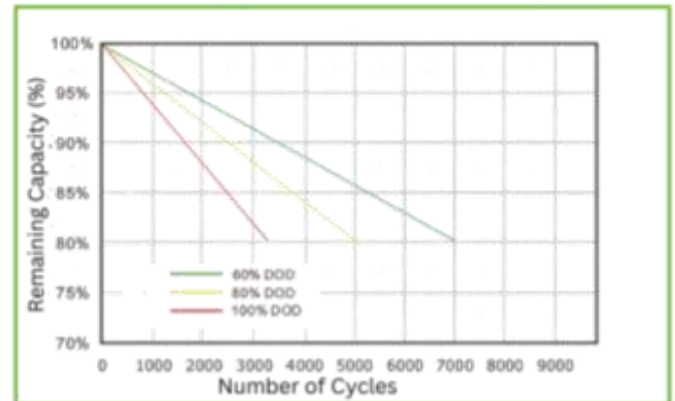
Different Discharge Depth Life Curve ( 25°C, 0.5C)



Different Temperature Self Discharge Curve



Diffrent Discharge Depth Life Curve & 40° , 0,5°C



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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