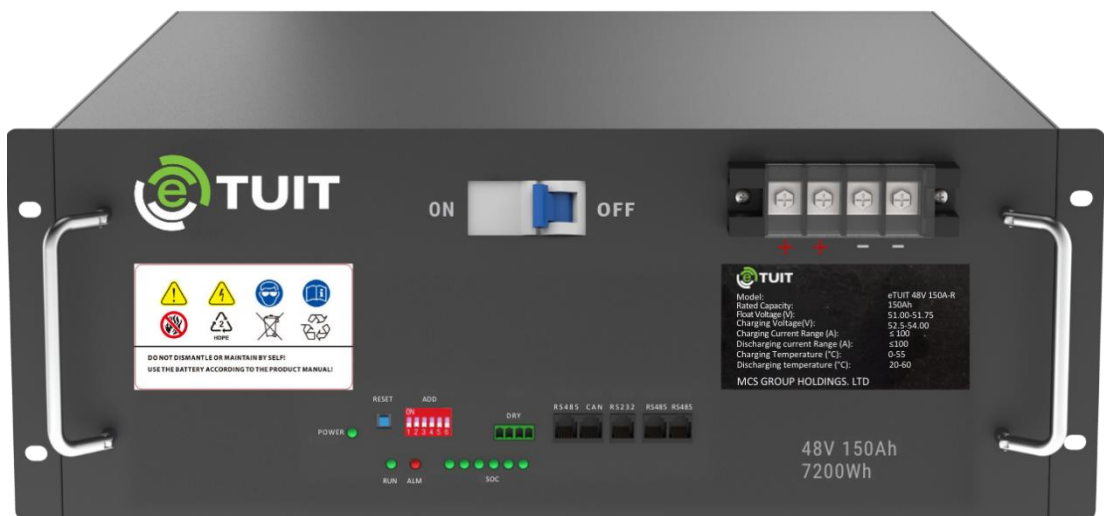




# 48V 100Ah- 150Ah

## 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

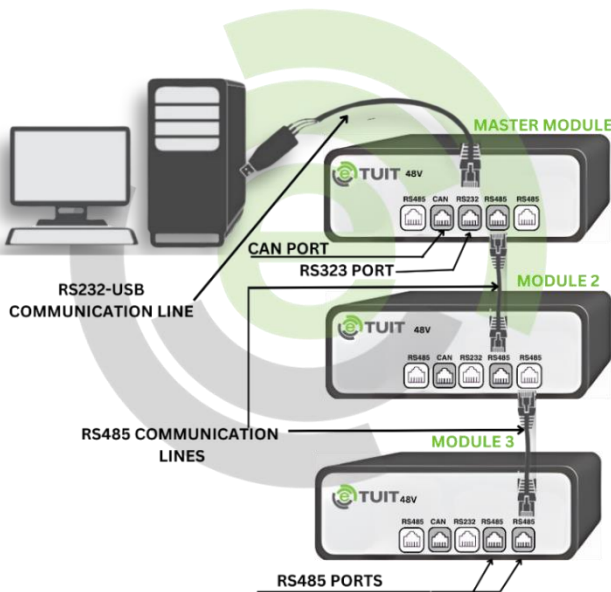
### APPLICATION SCENARIOS

- 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

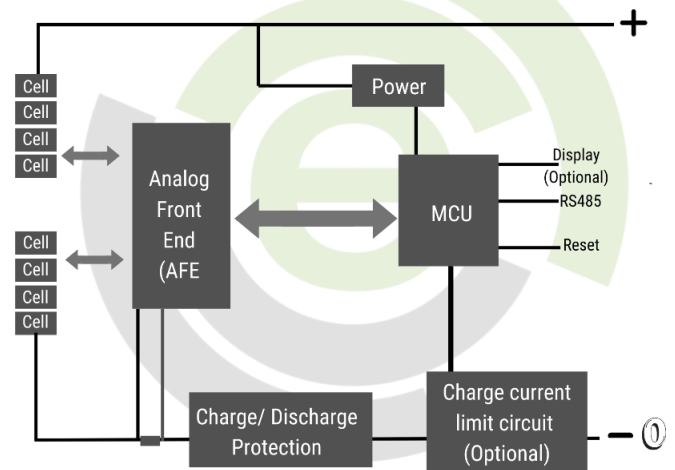
### KEY FEATURES

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

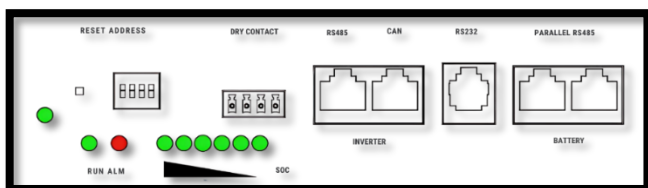
### PARALLEL CONNECTION



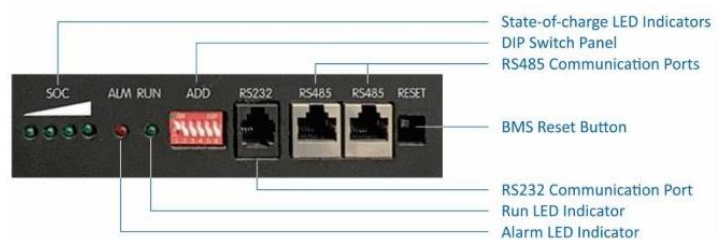
### CIRCUIT TOPOLOGY



### CAPACITY INDICATOR LIGHTS



COMPONENT	FUNCTION / DESCRIPTION			
State-of-charge indicator				
	0% – 25% SoC	25% – 50% SoC	50% – 75% SoC	75% – 100% SoC



## TECHNICAL SPECIFICATIONS

DESCRIPTION	48V Rack-Mounted Lithium Battery
MODEL	MCS Group eTUIT 48V Rack - Mounted Lithium Battery – Silverbric Series

PHYSICAL	eTUIT 48V 50Ah	eTUIT 48V 100Ah	eTUIT 48V 150Ah
MEASUREMENTS (W*D*H, mm)	442*400*133	442*430*175	442*530*182
WEIGHT (kg)	26.7	48	57
CONSTRUCTION	eTUIT 48V 50Ah	eTUIT 48V 100Ah	eTUIT 48V 150Ah
CELL MATERIAL	LFP	LFP	LFP
IP GRADE	IP20	IP20	IP20
TECHNICAL	eTUIT 48V 50Ah	eTUIT 48V 100Ah	eTUIT 48V 150Ah
RELATED VOLTAGE (V)	48	48	48
RELATED CAPACITY (Ah)	50	100	150
TOTAL ENERGY (Wh)	2400	4800	7200
CHARGE VOLTAGE (V)	54	54	54
MAX. DISCHARGE/CHARGE CURRENT (A)	50/50	100/100	100/100
CHARGE CURRENT LIMIT (A)	10	20	20
EOD VOLTAGE (V)	37.5	37.5	37.5
PEAK DISCHARGE POWER (W, 3s)	3150	6300	6300
WORKING TEMPERATURE (°C)	Recharge : 0 to +50      Discharge : -20 to +55		
RELATIVE HUMIDITY	0 ~ 95%RH (non-condensing)		
CONNECTIONS	eTUIT 48V 50Ah	eTUIT 48V 100Ah	eTUIT 48V 150Ah
COMMUNICATION PORT	RS485 (Modbus)/RS232		
CONNECTION	Support for parallel connection		
PROTECTION	eTUIT 48V 50Ah	eTUIT 48V 100Ah	eTUIT 48V 150Ah
	Over voltage protection (cell & system) Low voltage protection (cell & system) High-temperature protection Low-temperature protection Short circuit protection Over current protection		

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

## CAPACITY INDICATOR LIGHTS



<b>Model:</b>	<b>eTUIT 48V 150A-R</b>
<b>Rated Capacity:</b>	<b>150Ah</b>
<b>Float Voltage (V):</b>	<b>51.00-51.75</b>
<b>Charging Voltage(V):</b>	<b>52.5-54.00</b>
<b>Charging Current Range (A):</b>	<b>≤ 100</b>
<b>Discharging current Range (A):</b>	<b>≤100</b>
<b>Charging Temperature (°C):</b>	<b>0-55</b>
<b>Discharging temperature (°C):</b>	<b>20-60</b>
<b>MCS GROUP HOLDINGS. LTD</b>	



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

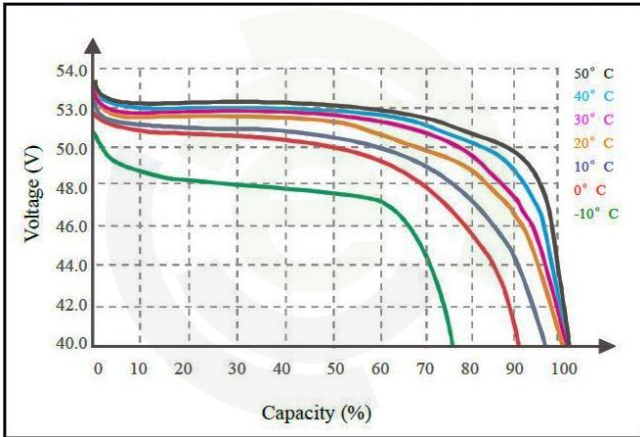
OTHERS

ACCESSORIES

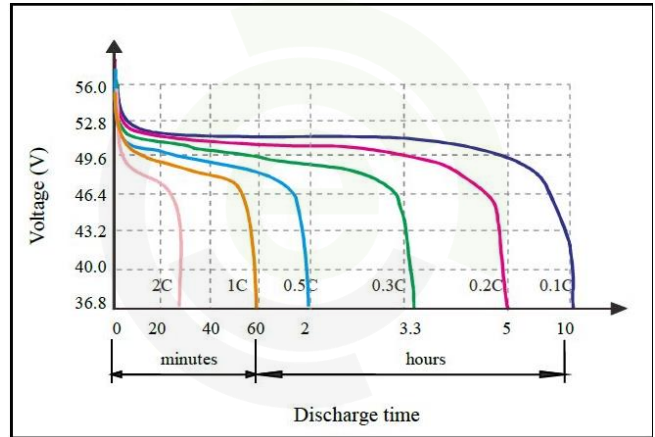
- LCD display
- SNMP
- Gyroscope sensor
- GPS tracker

PERFORMANCE CURVE

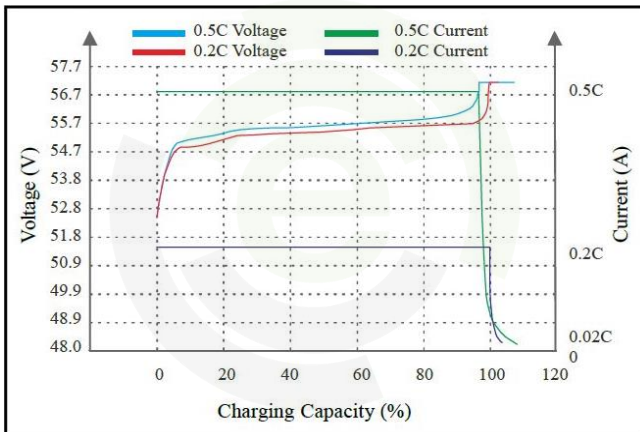
Temperature Effect On Discharge Characteristics(0.5°C)



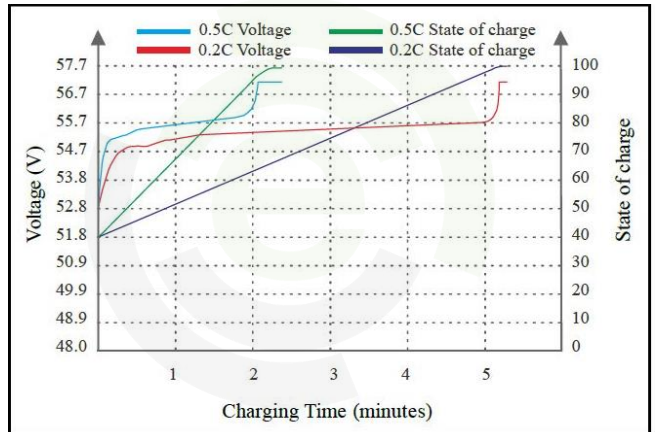
Discharge Characteristics(25°C)



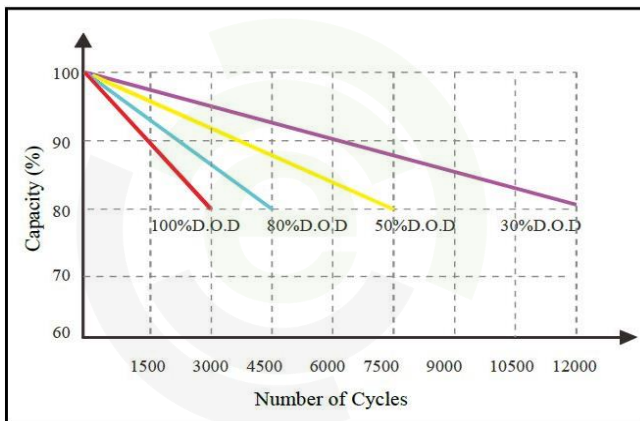
Charge Characteristics(25°C)



State of Charge Curve (25°C)



Cycle life on D.O.C (25°C)



Self-Discharge Characteristics Curve

