



# 51.2V 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”.

# LITHIUM 51.2V 150Ah BATTERY DATA SHEET

51.2V RACK-MOUNTED LITHIUM BATTERY – SILVERBRIC SERIES



## THE MOST EFFICIENT RACK-MOUNTED TELECOM BATTERY

The eTUIT 51.2V rack-mounted telecom lithium batteries are designed for the telecommunication market. This series combines safe and reliable prismatic cells with 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.

## 51.2V 150Ah RACK-MOUNTED BATTERY FOR TELECOMMUNICATION

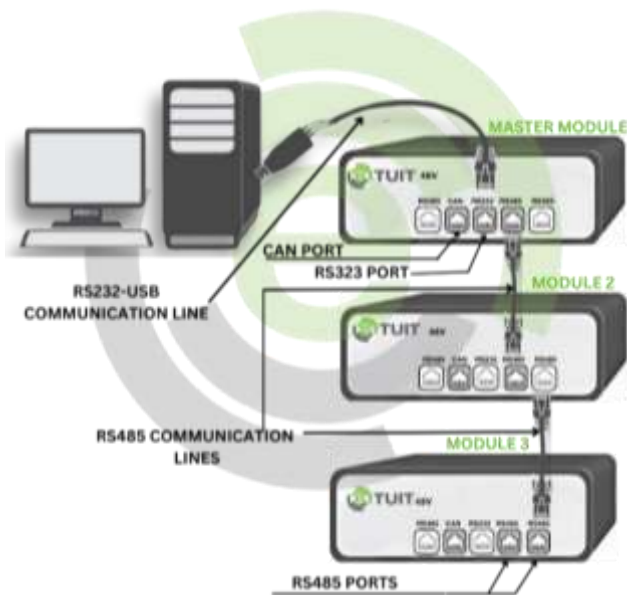
### APPLICATION SCENARIOS

- TRADITIONAL TELECOM BASE STATIONS:
- SQUARE CABINS, CABINETS, AND TOWER, ETC
- 5G TELECOM BASE STATIONS
- 51.2V BACKUP ENERGY STORAGE SYSTEMS
- 1-6KW UPS
- DATA CENTRE
- SOLAR INVERTER
- HOME ENERGY STORAGE

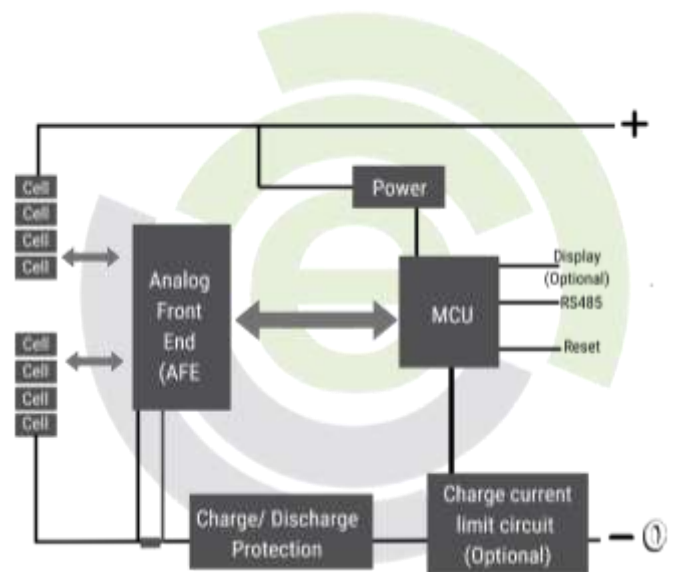
### KEY FEATURES

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

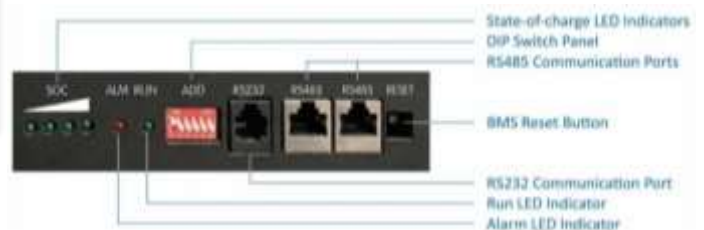
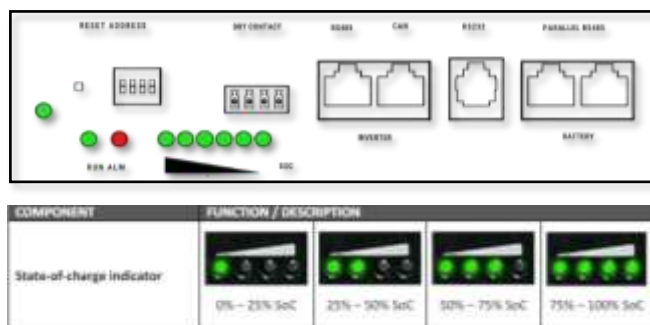
### PARALLEL CONNECTION



### CIRCUIT TOPOLOGY



### CAPACITY INDICATOR LIGHTS



# LITHIUM 51.2V 150Ah BATTERY DATA SHEET

51.2V RACK-MOUNTED LITHIUM BATTERY – SILVERBRIC SERIES



## TECHNICAL SPECIFICATIONS

DESCRIPTION	51.2V 150Ah Rack-Mounted Lithium Battery – SILVERBRIC SERIES
MODEL	MCS Group_eTUIT Lithium 51.2V 150Ah Rack-mounted

PHYSICAL	eTUIT 51.2V 150Ah	
MEASUREMENTS (W*D*H, mm)	500*488*230	
WEIGHT (kg)	67kg	
MANAGE CELL QTY	16S	
CONSTRUCTION	eTUIT 51.2V 150Ah	
CELL MATERIAL	LFP	
IP GRADE	IP20	
TECHNICAL	eTUIT 51.2V 150Ah	
RELATED VOLTAGE (V)	51.2	
RELATED CAPACITY (Ah)	150Ah	
STANDARD CHARGE CURRENT	75Ah (0.5C)	Battery module-rated voltage
TOTAL ENERGY (Wh)	7600	
CHARGE CUT-OFF VOLTAGE (V)	55Ah	
MAX. DISCHARGE/CHARGE CURRENT (AH)	100/100	
MAX PULSE DISCHARGE CURRENT	200Ah	25°C±3°C, ≤0.3 sec
DISCHARGE CUT-OFF VOLTAGE	37.5V	
MAX CONTINUOUS DISCHARGE CURRENT	150Ah	25°C±3°C, 100Ah Continues discharge
CHARGE CURRENT LIMIT (Ah)	20	
EOD VOLTAGE (V)	44.0	
PEAK DISCHARGE POWER (W, 3s)	6720	
WORKING TEMPERATURE (°C)	Recharge : 0 to +50    Discharge : -20 to +55	
RELATIVE HUMIDITY	0 ~ 95%RH (non-condensing)	
CONNECTIONS	eTUIT 51.2V 150Ah	
COMMUNICATION PORT	RS485 (Modbus)/RS232	
CONNECTION	Support for parallel connection	
PROTECTION	eTUIT 51.2V 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)

## BATTERY LABELS



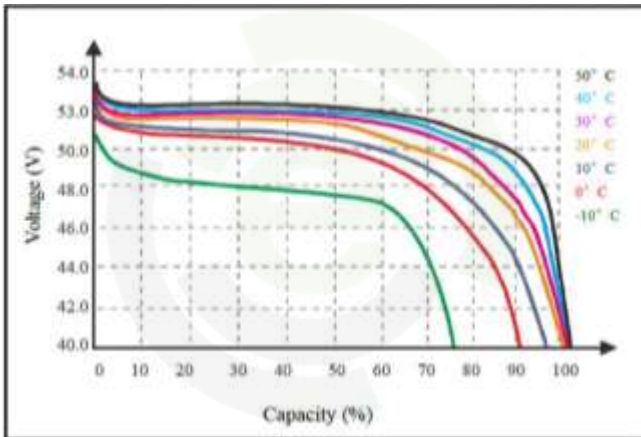
**Model:** eTUIT 51.2V 150A-R  
**Rated Capacity:** 150Ah  
**Float Voltage (V):** 54.4-55.2  
**Charging Voltage(V):** 56-57.6  
**Charging Current Range (A):** ≤ 150  
**Discharging current Range (A):** ≤150  
**Charging Temperature (°C):** 0-55  
**Discharging temperature (°C):** 20-60  
**MCS GROUP HOLDINGS. LTD**



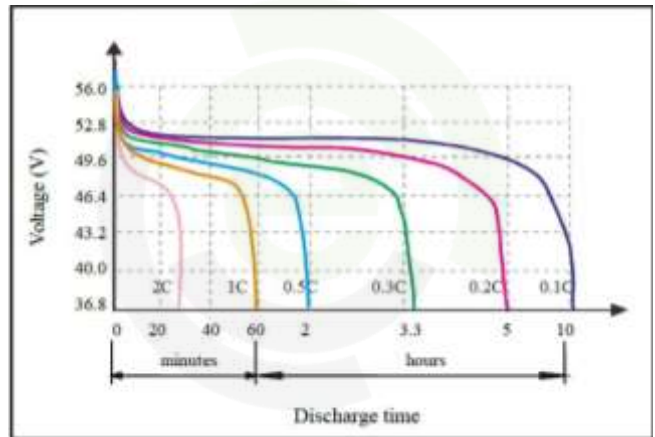
**DO NOT DISMANTLE OR MAINTAIN BY SELF!**  
**USE THE BATTERY ACCORDING TO THE PRODUCT MANUAL!**

### PERFORMANCE CURVE

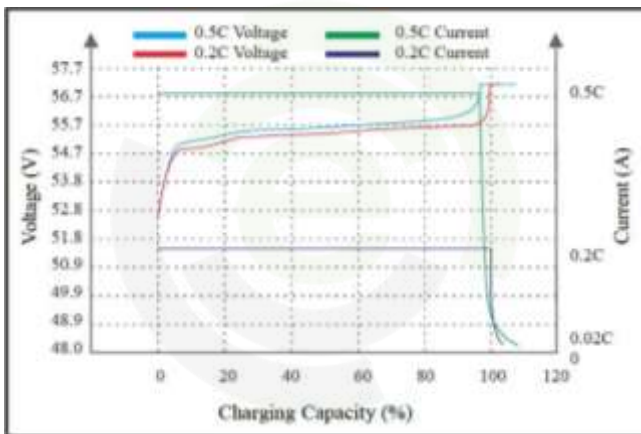
Temperature Effect on Discharge Characteristics(0.5°C)



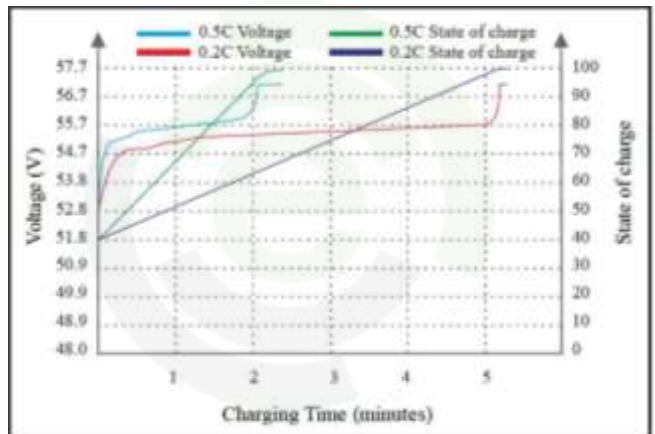
Discharge Characteristics(25°C)



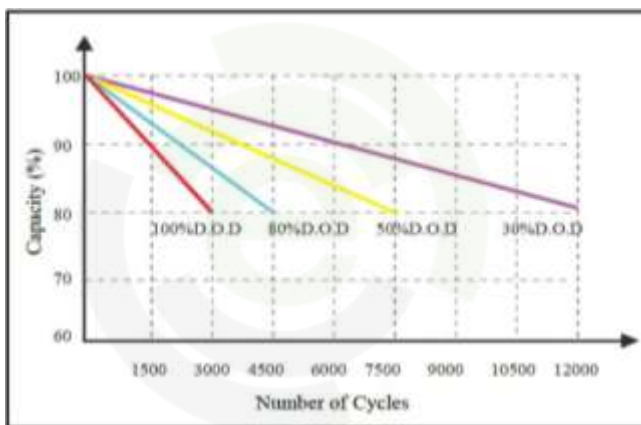
Charge Characteristics(25°C)



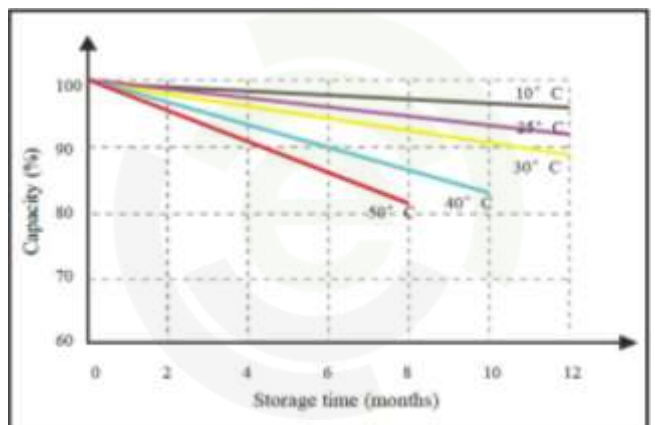
State of Charge Curve (25°C)



Cycle life on D.O.C (25°C)



Self-Discharge Characteristics Curve



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

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