

# LI-ION POLYMER BATTERY

## S3E-54174200-2



## PRODUCT FEATURES



### Excellent Anti-interference

Stable output even in a high-frequency environment



### Adaptability to Temperature

No exterior change under fix hot and humid condition and variable temperatures



### Cost-effectiveness

Higher performance compared to products at similar prices



### Stable Performance & Long Cycle Life

5000 cycles under 0.5C charge/discharge (80% capacity retention)

## ABOUT US

With IBM-LEO electrochemical system lithium battery technology, and IBM-Sidus joint R&D system, Sidus will continue to innovate to maintain and improve the global leading position of product performance. Based on the super technology of high-performance electrochemical system, Sidus will continue to launch ultra-high performance products, while taking into account the continuous improvement of product performance of traditional chemical system.


Sidus adheres to the business philosophy of "attending to every consideration of customers or considerations they haven't thought about yet, and providing high-performance products to solve difficulties for the industry", is committed to be a gigafactory of lithium battery manufacturing.



IEC 62133, EN62133

REACH-197

MSDS, UN38.3

 [www.sidusenergy.com](http://www.sidusenergy.com)

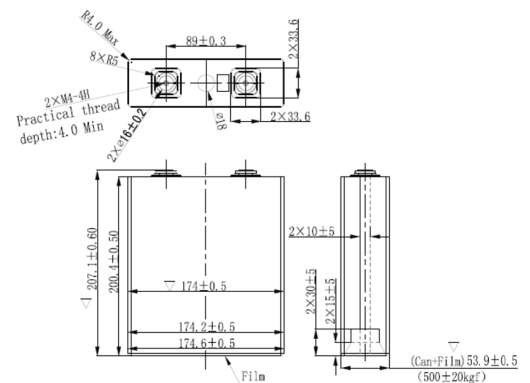
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## TECHNICAL PARAMETER OF CELL

Item	Specification	Remark	
Nominal Capacity	215Ah	0.5C Standard discharge	
Minimum Capacity	215Ah	1C Standard discharge	
Nominal Voltage	3.2V		
Resistance	≤0.3mΩ	50%SOC, 1KHz	
Charging Mode	C.C/C.V.	Constant Current/Constant Voltage	
Charging Method	Standard Charging 0.5C	Charging Current 107.5A	
	Fast Charging 1.0C	Charging Current 107.5A	
Charging Time	2-3 Hours	Standard Charging	
	2-3 Hours	Fast Charging	
Max. Constant Discharge Current	≤215mA	1C	
Discharge Cut-off Voltage	2.5V		
Max. Constant Charge Current	≤107.5A	0.5C	
Charge Cut-off Voltage	3.65±0.03V		
Weight	4.3Kg	Average	
Temperature Range for Operation	Charge	0~+45°C	
	Discharge	-20~+55°C	
Temperature Range for Storage	Less than 1 Month	-20~+45°C	
	Less than 3 Month	-10~+40°C	Humidity 50% ~ 75%RH
	Less than 1 Year	23±5°C	

## PRODUCT APPEARANCE AND SIZE

Item	Code	Specification
Thickness of the Battery	T	53.9±0.5mm
Width of the Battery	W	174±0.5mm
Height of the Battery	L	200.4±0.5mm
Pole Center Distance	D	89±0.3mm
Appearance	Battery no scratches, dirt, deformation, surface defects such drum leakage	
Note	Battery comply with ROHS standards	



## OPERATING INSTRUCTIONS AND MATTERS NEEDING ATTENTION

### 1.Storage

Batteris must be stored within -10~45 C . If there needs a long time(over 3 months) storage without operation , 23±5 C temperature and 65±20% humidity should be ensured.

### 2. Matters Needing Attention

A. It is forbidden to immerse the battery in water.

B. It is forbidden to put the batteries into fire or to be exposed to the environment exceeding the storage temperature for a long time.

C. It is forbidden to short circuit the positive and negative poles of the battery cell, otherwise it will cause serious damage to the battery cell. Since the positive and negative electrodes of the battery cell are exposed in the packaging, there should be sufficient safety protection during the assembly and connection of the battery system to avoid short circuit.

D. Connect the positive and negative poles of the battery cell strictly according to the label and instructions, and it is forbidden to connect or charge the battery in reverse.

E. It is forbidden to overcharge the battery, otherwise it may cause the battery to overheat or damage the battery.

F. When the electrolyte leaks, avoid contacting the electrolyte with skin and eyes. In case of contact, wash the area with plenty of water and consult a doctor as soon as possible. It is forbidden for any person or animal to swallow any part of the battery cell or the substance contained in the battery cell.

G. Make every effort to protect the battery cell, and it is forbidden to drop or impact the battery cell.

**Note:** This datasheet is not legally binding. Sidus Energy Co., Ltd. reserves the right to adjust specifications without notice. Further information please refer to our Website. If you have any objections to the test items or methods, please contact [Sidus Energy Technology Co., Ltd.](#) to resolve.