

LI-ION POLYMER BATTERY

S3E-54174200-1



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

6500 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

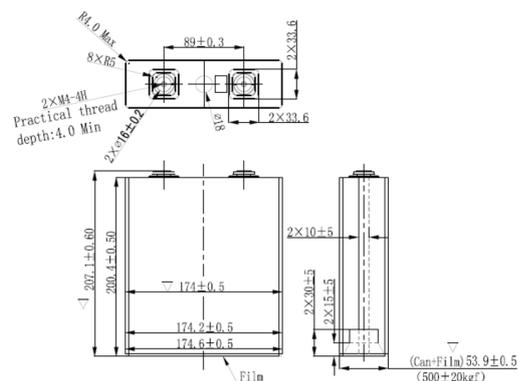
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TECHNICAL PARAMETER OF CELL

Item	Specification	Remark
Nominal Capacity	250Ah	0.5C Standard discharge
Minimum Capacity	250Ah	0.5C Standard discharge
Nominal Voltage		
Resistance	$\leq 0.3\text{m}\Omega$	50%SOC, 1KHz
Charging Mode		Constant Current/Constant Voltage
Charging Method	Standard Charging 0.5C Fast Charging 1.0C	Charging Current 125A Charging Current 125A
Charging Time		Standard Charging Fast Charging
Max. Constant Discharge Current	$\leq 250\text{mA}$	1C
Discharge Cut-off Voltage		
Max. Constant Charge Current	$\leq 125\text{A}$	0.5C
Charge Cut-off Voltage		
Weight	4.3Kg	Average
Temperature Range for Operation		0~+45°C -20~+55°C
Temperature Range for Storage	Less than 1 Month Less than 3 Month Less than 1 Year	-20~+45°C -10~+40°C 23±5°C
		Humidity 50% ~ 75%RH

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

Batteries 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.