



LI-ION POLYMER BATTERY S1E-452030-1

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



Effective I5C Discharge Rate

98% capacity can be released under 15C discharge rate (vs 0.5C)



Cost-effectiveness

Higher performance compared to products at similar prices



High Energy Density

Energy density reaches 245Wh/L



Stable Performance & Long Cycle Life

Slow fading, over 300 cycles


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

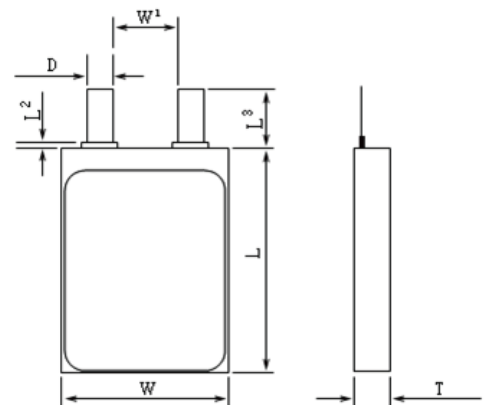
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TECHNICAL PARAMETER OF CELL

Item	Specification	Remark	
Nominal Capacity	180mAh	15C Discharge	
Minimum Capacity	170mAh	15C Discharge	
Nominal Voltage	3.7V		
Resistance	≤80mΩ	50%SOC, 1KHz	
Charging Mode	C.C/C.V.	Constant Current/Constant Voltage	
Charging Method	Standard Charging 0.5C	Charging Current 90mA	
	Fast Charging 1.0C	Charging Current 180mA	
Charging Time	4-5 Hours	Standard Charging	
	2-3 Hours	Fast Charging	
Max. Constant Discharge Current	≤2700mA	15C	
Discharge Cut-off Voltage	2.75±0.05V		
Max. Constant Charge Current	≤180mA		
Charge Cut-off Voltage	4.20±0.05V		
Weight	4.8g	Average	
Temperature Range for Operation	Charge	0~+40°C	
	Discharge	-10~+60°C	
Temperature Range for Storage	Less than 1 Month	-10~+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	4.6mmMAX
Width of the Battery	W	20.0mmMAX
Height of the Battery	L	30.5mmMAX
Very Ear Glue Height	L2	1.0±0.5mm
Length of the Tabs	L3	6.0±1.5mm
Spacing Between Tabs	W1	8.0±1.0mm
Wdth of the Tabs	D	2.0mm
Folding Way	Single ruffled	
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. OCV of batteries must be in the range of 3.65~3.85V.

2. Matters Needing Attention

A.Packing foil

Packing foil is easily damaged by sharp parts, such as nickel, pointed needle. Sharp parts collision battery is prohibited. Clean work environment to make sure no any sharp component.

B.Top sealed edge

Sealing edge is very easy to be damaged. Don' t bend or fold sealing edge.

C.Folding edge

The folding edge is formed in battery manufacture process and passed all hermetic test. Don't open and deform folding edge.

D.Tabs

The battery tabs are not so firm especially the aluminum tab.Don' t bend tab.

E.Mechanical shock

Don't drop, hit, bend battery body.

F.Short circuit

Short circuit of battery is strictly prohibited at any time, it may damage battery very badly.

G.Notice of Designing Battery Pack

The outer shell of the Battery should have sufficient strength and cell should be protected from mechanical shock.

H.Cell connection

Ultrasonic welding or spot welding is recommended to connect battery with PCM or other parts.

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.