赛得能源
Sidus Energy

LI-ION POLYMER BATTERY
S1E-902030-1

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 I C Discharge Rate
98% capacity can be released under 1 C discharge rate (vs 0.5C)

Cost-effectiveness
Higher performance compared to products at similar prices

High Energy Density
Energy density reaches 340Wh/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

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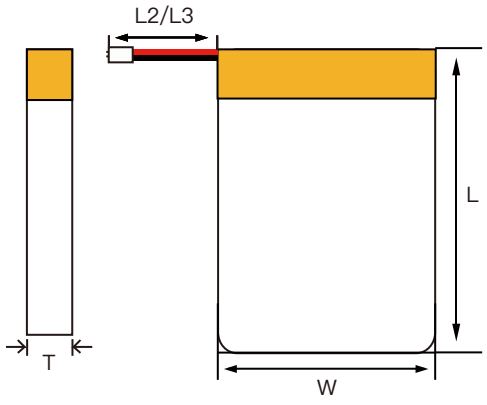
TECHNICAL PARAMETER OF CELL

Item	Specification		Remark
Nominal Capacity	500mAh		1C Discharge
Minimum Capacity	490mAh		1C Discharge
Nominal Voltage	3.7V		
Resistance	≤120mΩ		50%SOC , 1KHz
Charging Mode	C.C/C.V.		Constant Current/Constant Voltage
Charging Method	Standard Charging 0.5C		Charging Current 250mA
	Fast Charging1.0C		Charging Current 500mA
Charging Time	4-5 Hours		Standard Charging
	2-3 Hours		Fast Charging
Max. Constant Discharge Current	≤1000mA		2.0C
Discharge Cut-off Voltage	2.75±0.05V		
Max. Constant Charge Current	≤500mA		
Charge Cut-off Voltage	4.20±0.05V		
Weight	9.5g		Average
Temperature Range for Operation	Charge	0~+40℃	
	Discharge	-10~+60℃	
Temperature Range for Storage	Less than 1 Month	-10~+45℃	Humidity 50% ~ 75%RH
	Less than 3 Month	-10~+40℃	
	Less than 1 Year	23±5℃	

PRODUCT APPEARANCE AND SIZE

Item	Code	Specification
Thickness of the Battery	T	9.1mmMAX
Width of the Battery	W	20.5mmMAX
Height of the Battery	L	37.0mmMAX
Length of the Black Wire	L2	75±5mm
Length of the Red Wire	L3	80±5mm
Wire Specifications	Diameter* Length = 1.0* 85/95 mm	
PC Board Specifications	Width * Length = 3.6*14 mm, one MOS	
Tape Specifications	Width 5 mm Adhesive tape. It's light brown	
Electronic Line Direction	The the left of the line	
Folding Way	Double folding edge	
Note	Battery comply with ROHS standards	



OPERATING INSTRUCTIONS AND MATTERS NEEDING ATTENTION

1.Storage

Batteris must be storaged within -10~45℃. If there needs a long time(over 3 months) storage without operation , 23±5℃ 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.