



Advantages of SLPB

Lower Cost/Consistent Quality/Greater Reliability

Innovative SLPB manufacturing technology: simple and fast manufacturing process with Z-Folding technology



Applications

- Transportation
 - Fully electric vehicles
 - Plug-in electric vehicles
- Military
- Aviation
- UPS
- Industrial Machinery
- Marine
- Grid Storage
- Telecom

Kokam's patented manufacturing process produces cells for applications that require:

- Excellent energy density(130 – 200Wh/kg)
- Excellent power-to-energy balance
- High cycle life
- Longer battery life
- Low impedance and heat generation for improved safety
- Light weight

Electrical Characteristics

Items	Specification		Remarks
Rated Capacity	16Ah		Charge@0.2C, 23±3 °C Discharge@0.2C, 23±3 °C
Energy Density	146Wh/kg		
Energy Density ⁽¹⁾	261Wh/L		
Impedance	Max. 1.10mΩ		AC @1kHz
Weight	Max. 406g		
Cell Dimension [Maximum]	Width ^(A)	220mm	Unfolded
	Length ^(B)	132mm	Except for tab length
	Thickness ^(C)	7.8mm	0.5kgf/cm ² , 3.7±0.1V
Voltage	Average	3.7V	
	Lower limited	2.7V	
	Upper Limited	4.2V	
Current [Maximum]	Charge	Cont. 48A (3C)	@23±3 °C
	Discharge	Cont. 128A (8C)	@23±3 °C
		Peak 240A (15C)	<10sec, > SOC 50%
Cycles @1C/1C, to 80% of Capacity	up to 4,000		80% DOD or 3.4~4.1V (@23±3 °C)

(1) Volume calculated excluding tabs.

Common Specifications

Charging Temperature ⁽²⁾	0 ~ 10 °C	< 0.3C	Pre-charging range
	10 ~ 35 °C	< 3C	Rapid charging range
	35 ~ 45 °C	< 1C	Charging range
Discharging Temperature ⁽³⁾	-10 ~ 55 °C		
Storage Temperature	-20 ~ 25 °C	1year	@60±25% R.H. SOC 50 ±5%
	25 ~ 40 °C	3months	
	40 ~ 60 °C	< 1week	

(2) 0 °C ↓ or 45 °C ↑: Charge Protection Temperature (Shut down required)

(3) -10 °C ↓ or 55 °C ↑: Discharge Protection Temperature (Shut down required)

SUPERIOR LITHIUM POLYMER BATTERY

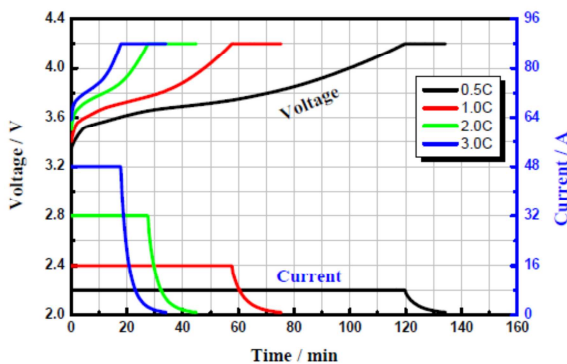
Operating Voltage Range

OVER-DISCHARGE RANGE	NORMAL OPERATING RANGE	OVER-CHARGE RANGE
2.7V	3.7V	4.2V

- **NORMAL OPERATING RANGE:** The operating voltage range that satisfies the standard performance of the cell.
- **OVER- CHARGE/ DISCHARGE RANGE:** The voltage range that should be avoided.

Charge Characteristics

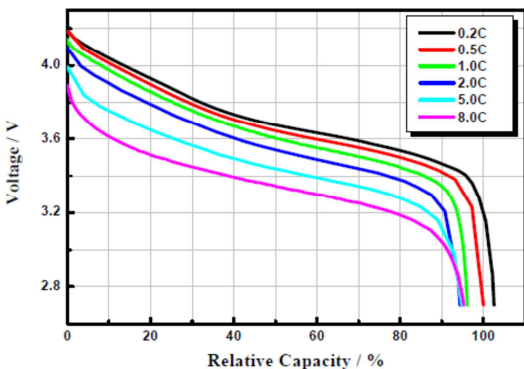
- CC-CV, 0.5C ~ 3.0C, 4.2V, 0.05C cut off @23±3℃



Charge	0.5C	< 150min
	1.0C	< 90min
	3.0C	< 40min

Discharge Characteristics

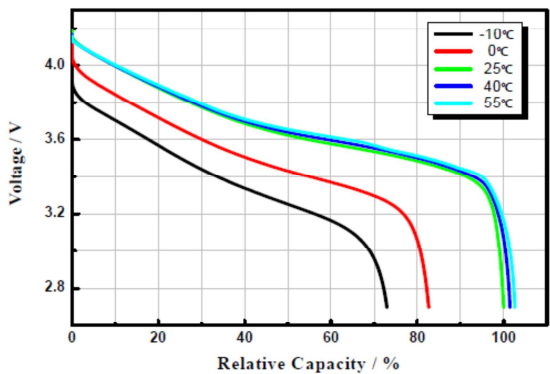
- Charge : CC-CV, 1.0C, 4.2V, 0.05C cut off @23±3℃
- Discharge : CC, 0.2~8.0C, 2.7V cut off @23±3℃



Discharge	0.5C	> 100%
	1.0C	> 97%
	5.0C	> 93%
	8.0C	> 90%

Temperature Characteristics

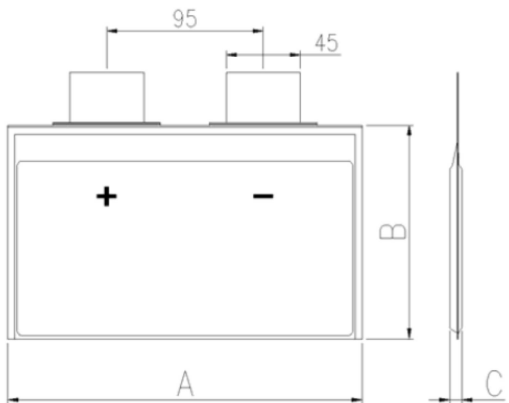
- Charge : CC-CV, 1.0C, 4.2V, 0.05C cut off @23±3℃
- Discharge : CC, 0.5C, 2.7V cut off @Each temp.



Discharge	-10℃	> 60%
	0℃	> 80%
	25℃	100%
	55℃	100%

Mechanical Characteristics

A : Max. 220mm
B : Max. 132mm
C : Max. 7.8mm



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Producent zastrzega sobie prawo do dokonywania zmian w specyfikacji niniejszego produktu