



SODIUM-ION PRISMATIC CELL

MODEL: SIB 50160118-50Ah

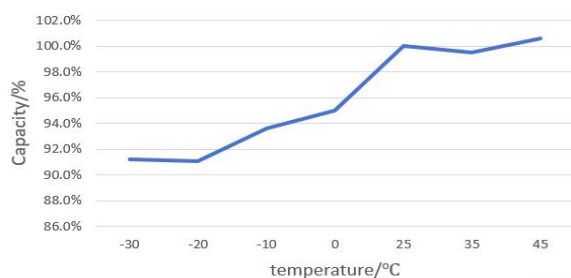
Technical Specifications

Item	Unit	Specification
Nominal Voltage	V	2.85
Rated Capacity ((25°C))	Ah	50.0
Rated Energy	Wh	142.5
STD. Continuous Charging Current	A	25(0.5C)
MAX. Continuous Charging Current	A	50(1C)
STD. Continuous Discharging Current	A	25(0.5C)
MAX. Continuous Discharging Current	A	100(2C)
Charging Cut-off Voltage	V	3.5
Discharge Cut-off Voltage	V	1.5
MAX. Short Pulse Discharge Current(25±2°C)	A	—

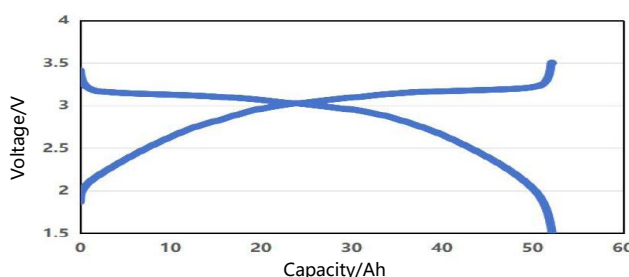
Technical Specifications(continue)

Item	Unit	Specification
Dimensions(W*L*H±0.6)	mm	50.5*160.3*118
Approx. Weight (±0.15)	kg	1.65
AC resistance (1kHz)	mΩ	≤0.5
Discharge temperatur	°C	-40~60
Charge temperature	°C	0~55
Storage temperature	°C	0~45
Storage 28 days@RT	—	Retention capacity≥95%, Recovery capacity≥97%
Cycle life(0.5C charge /0.5C discharge@RT)	cycles	> 6,000
Monthly self-discharge rate	%	≤2
Certificate	—	UN38.3

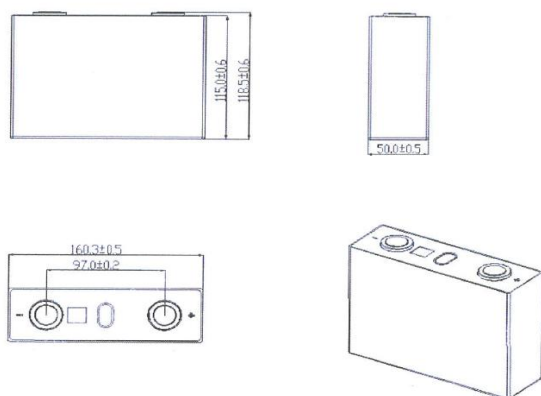
Capacity@different temperature



Charge/Discharge Curve 0.5C@25°C(77°F)



Dimension Specifications



Product Safety

Item	Specification	Remarks
Over Discharge	No fire, No explosion	Reference to GB/T44265-2024
Overcharge	No fire, No explosion	Reference to GB/T44265-2024
External short circuit	No fire, No explosion	Reference to GB/T44265-2024
Heating Test	No fire, No explosion	Reference to GB/T44265-2024
Crush	No fire, No explosion	Reference to GB/T44265-2024
Drop Test	No fire, No explosion	Reference to GB/T44265-2024
Thermal runaway test	No fire, No explosion	Reference to GB/T44265-2024
Low Pressure Test	No fire, No explosion	Reference to GB/T44265-2024

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