

High Power Type

31Ah Lithium ion Battery

UL, UN, SBA Certified



- › High power performance (Up to 12C-rate)
- › High gravimetric and volumetric power density
- › Excellent power-to-energy balance
- › Long cycle and calendar life (Over 6,000 cycles, up to 15 years*)
- › Low impedance and heat generation for improved safety
- › Highly reliable with proven field performance

*Depending on the load profile, the warranty condition may differ

Electrical Characteristics

Model: SLPB78216216H

Items		Specification	Remarks
Nominal Capacity (Ah)		31	Charge @ 0.2C, 25±3°C Discharge @ 0.2C, 25±3°C
Nominal Energy (Wh)		114.7	
Energy Density	Gravity (Wh/kg)	160	
	Volume (Wh/L)	375	Excluded tab and seal
Internal Resistance (mΩ) / Max.		0.9	AC @ 1kHz, SOC 30±5%
Weight (g) / Max		723	
Cell Dimension (mm)	Width	226	Unfolded
	Length	227	Excluded tab length
	Thickness	8.1	0.5kgf/cm ² , SOC 30±5%
Voltage (V)	Average	3.7	
	Lower Limit	2.7	
	Upper Limit	4.2	
Current (A)	Charge	Cont.	93 (3C) @ 25±3°C
		Cont.	248 (8C) @ 25±3°C
	Discharge	Peak	372 (12C) ≤ 10 sec, ≥ SOC 50%
Cycle Life at 90% DOD		1C/1C	≥ 6,000 @ 25±3°C, 70% remaining capacity
Certification		UL1642, UN38.3, SBA1101	

Common Specifications*

Charging Temperature	0 ~ 10°C	< 0.2C	Pre-charging range
	10 ~ 35°C	< 3.0C	Rapid charging range
	35 ~ 45°C	< 1.0C	Charging range
Discharging Temperature	-20 ~ 55°C		
Storage Temperature	-20 ~ 25°C	1 year	@ 60±25% R.H. SOC 50±5%
	-20 ~ 35°C	6 months	
	-20 ~ 45°C	3 months	
	-20 ~ 60°C	< 1 week	

*Customers shall consult Kokam if temperature condition is outside the range in which cyclic operation is allowed.

*Customers shall review and understand the cell safe handling guideline prior to using the cell.

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