High Energy Type

31Ah Lithium ion Battery

UL Certified

- High energy density (175Wh/kg and 408Wh/L)
- 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 internal resistance and heat generation
- Highly reliable with proven field performance

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

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Electrical Characteristics

Model: SLPB72216216

Items			Specification	Remarks
Nominal Capacity (Ah)			31	Charge @0.2C, 25±3℃ Discharge @0.2C, 25±3℃
Nominal Energy (Wh)			114.7	
Energy Density	Gravity (Wh/kg)		175	
	Volume (Wh/L)		408	Excluded tab and seal
Internal Resistance (mΩ) / Max.			1.1	AC @1kHz, SOC 30±5%
Weight (g) / Max			665	
Cell Dimension (mm)	Width		226	Unfolded
	Length		227	Excluded tab length
	Thickness		7.5	0.5kgf/㎠, SOC 30±5%
Voltage (V)	Average		3.7	
	Lower Limit		2.7	
	Upper Limit		4.2	
Current (A)	Charge	Cont.	62 (2C)	@25±3℃
	Discharge	Cont.	155 (5C)	@25±3℃
		Peak	248 (8C)	≤ 10 sec, ≥ SOC 50%
Cycle life at 90% DOD		1C/1C	≥ 6,000	@25±3℃, 70% remaining capacity
Certification			UL1642	

Common Specifications*

Charging Temperature	0 ~ 10℃	< 0.2C	Pre-charging range
	10 ~ 35℃	< 2.0C	Rapid charging range
	35 ~ 45℃	< 1.0C	Charging range
Discharging Temperature	-20 ~ 55℃		
Storage Temperature	-20 ~ 25℃	1 year	@60±25% R.H. SOC 50±5%
	25 ~ 35℃	6 months	
	35 ~ 45℃	3 months	
	45 ~ 60℃	< 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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