

High Energy Type

53Ah Lithium-ion Battery

UL, UN, SBA, CE Certified



- › High energy density (182Wh/kg and 418Wh/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

Electrical Characteristics

Model: SLPB120216216				
Items			Specification	Remarks
Nominal Capacity (Ah)			53	Charge @0.2C, 25±3°C Discharge @0.2C, 25±3°C
Nominal Energy (Wh)			196.1	
Energy Density	Gravity (Wh/kg)		182	
	Volume (Wh/L)		418	Excluded tab and seal
Internal Resistance (mΩ) / Max.			0.9	AC @1kHz, SOC 30±5%
Weight (g) / Max			1095	
Cell Dimension (mm)	Width		226	Unfolded
	Length		227	Excluded tab length
	Thickness		12	0.5kgf/cm², SOC 30±5%
Voltage (V)	Average		3.7	
	Lower Limit		2.7	
	Upper Limit		4.2	
Current (A)	Charge	Cont.	106 (2C)	@25±3°C
	Discharge	Cont.	265 (5C)	@25±3°C
		Peak	424 (8C)	≤ 10 sec, ≥ SOC 50%
Cycle Life at 90% DOD		1C/1C	≥ 6,000	@25±3°C, 70% remaining capacity
Certification			UL1642, SBA1101, IEC62133, UN38.3	

Common Specifications*

Charging Temperature	0 ~ 10°C	< 0.2C	Pre-charging range
	10 ~ 35°C	< 2.0C	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%
	25 ~ 35°C	6 months	
	35 ~ 45°C	3 months	
	45 ~ 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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