

High Power Type

# 85Ah Lithium ion Battery

UL, UN, CB Certified



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

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

## Electrical Characteristics

Model: SLPB125255255G1H

Items		Specification	Remarks	
Nominal Capacity (Ah)		85	Charge @ 0.2C, 25±3°C Discharge @ 0.2C, 25±3°C	
Nominal Energy (Wh)		312.8		
Energy Density	Gravity (Wh/kg)	181		
	Volume (Wh/L)	439	Excluded tab and seal	
Internal Resistance (mΩ) / Max.		0.4	AC @ 1kHz, SOC 30±5%	
Weight (g) / Max		1,735		
Cell Dimension (mm)	Width	268	Unfolded	
	Length	265	Excluded tab length	
	Thickness	12.6	0.5kgf/cm <sup>2</sup> , SOC 30±5%	
Voltage (V)	Average	3.68		
	Lower Limit	2.7		
	Upper Limit	4.2		
Current (A)	Charge	Cont.	255 (3C)	@ 25±3°C
		Cont.	680 (8C)	@ 25±3°C
	Discharge	Peak	1,020 (12C)	≤ 10 sec, ≥ SOC 50%
Cycle life at 90% DOD		1C/1C	≥ 6,000	@ 25±3°C, 70% remaining capacity
Certification		UL1642, UL1973, UN38.3, IEC62619, UL9540A		

## 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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