

High Power Type

24.5Ah Lithium ion Battery



- › High power performance (Up to 10C-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: SLPB82255140H

Items		Specification	Remarks	
Nominal Capacity (Ah)		24.5	Charge @ 0.2C, 25±3°C Discharge @ 0.2C, 25±3°C	
Nominal Energy (Wh)		90.7		
Energy Density	Gravity (Wh/kg)	156		
	Volume (Wh/L)	278	Excluded tab and seal	
Internal Resistance (mΩ) / Max.		0.7	AC @ 1kHz, SOC 30±5%	
Weight (g) / Max		600		
Cell Dimension (mm)	Width	268	Unfolded	
	Length	152	Excluded tab length	
	Thickness	8.2	0.5kgf/cm ² , SOC 30±5%	
Voltage (V)	Average	3.7		
	Lower Limit	2.7		
	Upper Limit	4.2		
Current (A)	Charge	Cont.	73.5 (3C)	@ 25±3°C
		Cont.	196 (8C)	@ 25±3°C
	Discharge	Peak	245 (10C)	≤ 10 sec, ≥ SOC 50%
Cycle Life at 90% DOD		1C/1C	≥ 6,000	@ 25±3°C, 70% remaining capacity

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%
	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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