

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% |
| | 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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