


Premium Lithium Cell

ETC-NCM-42Ah

1. Holistic safety concept of cell .
2. Outstanding cycle life with maximum reliability.
3. Continuously improved energy density through new materials and light weighting technology.
4. Modular design for various applications and easy upgrade to next generations.
5. Standardized cell format.

| Item | Specification | |
|---|---|-------------------------|
|  | Dimension (Welding terminal) | 27mm x148mm x98mm |
| | Dimension (Screw terminal) | 27mm x148mm x112mm |
| | Weight | Max. 870g |
| | Min. capacity | 42Ah (1/3C) @ 25°C |
| | Min. energy | 155Wh (1/3C) @ 25°C |
| | SOC window | 15 ~ 95% |
| | Terminal | Welding/ Screw terminal |
| | Impedance (1kHz) | 0.8 mΩ |
| Voltage | Max. | 4.20 V |
| | Nominal | 3.65 V |
| | Min. | 3.00 V |
| Current | Maximum continuous charge | 42 A |
| | Maximum continuous discharge | 42 A |
| Energy density | Gravimetric | 180Wh/kg |
| | Volumetric | 430Wh/L |
| Temp. Condition | Operation (Charge) | -15°C ~ 55°C |
| | Operation (Discharge) | -30°C ~ 55°C |
| | Storage | -30°C ~ 55°C |
| Self-Discharge Rate | 100% SOC storage at 25±2°C for 1 month | ≤3% |
| Cycle Life | 1C/1C, 80% DOD 25°C | 2,000 cycles |
| Service Life | 35°C average temperature | 8 years |
| Abuse test | Overcharge, Over-discharge, Short, Heat | UN38.3, GB/T 31485-2015 |

Charge and discharge curve

