


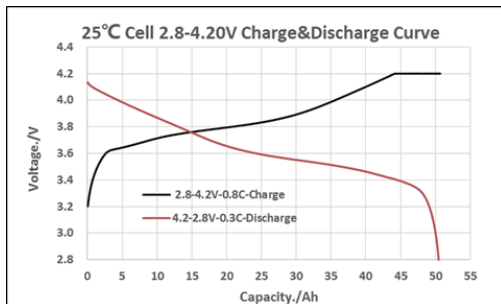
Premium Lithium Cell

EP-NCM50Ah

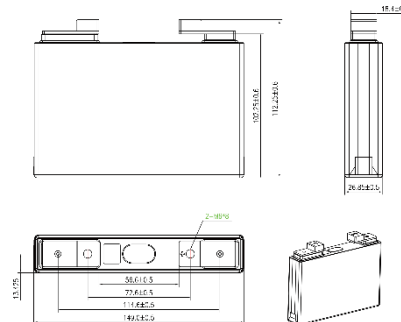
- Holistic safety concept of cell
- Outstanding cycle life with maximum reliability
- Continuously improved energy density through new materials and light weighting technology
- Modular design for various applications and easy upgrade to next generations
- Standardized cell format is compatible with VDA standards

| Item | Specification | |
|--|--|---------------------------|
|  C2-NCM 50W C2-NCM50S | Dimension (Welding terminal) | 26.85mm x149mm x102.25mm |
| | Dimension (Screw terminal) | 26.85mm x149mm x 112.25mm |
| | Weight | 910±180 g |
| | Min. capacity | 50Ah (1/3C) @ 25°C |
| | Min. energy | 186 Wh (1/3C) @ 25°C |
| | Recommended SOC usage window | 10~ 90% |
| | Terminal | Welding/Screw terminal |
| | Impedance (1kHz) | 0.8mΩ |
| | Voltage | Max. |
| Nominal | | 3.72 V (1/3C) |
| Min. | | 2.8 V (-5°C≤T≤55°C) |
| Current | Maximum continuous charge | 50A |
| | Maximum continuous discharge | 50A |
| Energy density | Gravimetric | 204Wh/kg |
| | Volumetric | 456.8Wh/L |
| Temp. Condition | Operation (Charge) | -15 ~ 55°C |
| | Operation (Discharge) | -30 ~ 55°C |
| | Storage | -30 ~ 55°C |
| Self-Discharge Rate | Count after fresh cell need Standard Charge to 50%SOC and storage at 25±2°C for 3 months | ≤3% |
| Cycle Life | 0.5C/1C, 80% DOD 25°C | 2,000 cycles |
| Service Life | 35°C average temperature | 8 years |
| Abuse test | Overcharge, Over-discharge, Short, Heat | GB/T 31485-2015 |

Charge and discharge Curve



Dimension



Certification

