


## Premium Lithium Cell

# EP-NCM-42Ah

- 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

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

