

CATL 3.2V 314Ah LiFePO4 Battery Cell For ESS

The CATL 314Ah LiFePO4 battery cell is a high-capacity battery cell that is used for energy storage systems, it is an upgrade of the CATL 280Ah Lifepo4 battery cell and the 314ah lifepo4 cell has a 12% higher capacity than 280ah lifepo4 cell in the same dimensions; It is manufactured by Contemporary Amperex Technology Co. Limited (CATL), a Chinese battery manufacturer. This battery cell has a capacity of 314Ah and a nominal voltage of 3.2V. It is designed to provide high energy density and long cycle life. The battery cell is also known for its high safety performance and reliability.

The CATL 314Ah LiFePO4 battery cell is commonly used in energy storage systems for residential, commercial, and industrial applications. It can be used in conjunction with other battery cells to create larger battery packs with higher capacities.

Parameter	Specification
Typical capacity	314 Ah
Typical Energy	1004.8Wh
Operating voltage	2.5~3.65V, T>0°C 2.0~3.65V, T≤0°C
Impedance (1KHz)	0.17±0.05mΩ, Fresh cell
Shipping capacity	99±1Ah
Standard charge power	0.5P, 25±2°C
Max. continuous charge power	0.5P
Standard charge voltage	Cell max voltage 3.65V
Standard discharge power	0.5P, 25±2°C
Maximum discharge power (continuous)	0.5P
Discharge cut-off voltage	2.5V, T>0°C 2.0V, T≤0°C
Residual capacity loss	Per month ≤3.5%, First Month
Operating temperature	Charging: 0~60°C Discharging: -20~60°C
Cell Weight	5.49±0.30Kg
Storage temperature	-35~60°C
Storage ambient humidity	< 85% ROH, no condensation
dimension(W*H*T)	174.26*204.41*71.65mm
Rest SOC	≥8%
Altitude	< 5000m
Cycle performance	7000 Cycles@70%SOH



