



## LiFePO<sub>4</sub> 48V 75Ah Battery Specifications

Item	Specification	Description/Remark
Model	AT-LFP-48-75-V01	48V 75Ah LiFePO <sub>4</sub> battery
Chemistry	Lithium Iron Phosphate (LiFePO <sub>4</sub> )	
Battery dimensions	520mm x 267mm x 220mm	L x W x H
Weight	35kg	
Cell type	Prismatic 3.2V 75Ah	
Battery module	16 pcs 3.2V 75Ah cells, 1 parallel and 16 serial	
Casing material for single cell	Nickel plated steel	
Standard capacity (0.2C <sub>5A</sub> )	51.2V 75Ah / 3840Wh	
Cycle life	> 2000 cycles at 100% Depth of Discharge (DoD)	Under normal usage where the DOD is <80%, cycle life is expected to be up to 5000 cycles
Rated voltage	51.2V	Working voltage per cell: 3.2V
Maximum Charge voltage	58.4V	Max. charge voltage per cell: 3.65V
Cut-off voltage	Nominal 40V	Cut-off is triggered when the first cell reaches 2.50V
Depth of Discharge (DoD)	100%	Batteries can be discharged to 100% of the rated capacity
Optimum charge current	15A	0.2C
Charging time	Approximately 5 hours	When charging from low voltage cut-off point
Rapid charging	Max. charge current 75A (1C <sub>3A</sub> )	Temperature increase falling within 15°C is normal. Over 15°C will affect the service life of the cells.
Max continuous discharge current	75A	1C, cell min voltage > 2.0v
Peak discharge current	200A	2.6C (5 seconds)
Discharge performance at normal temperature	15A (0.2C <sub>15A</sub> ) ≥ 100% 75A (1C <sub>37.5A</sub> ) ≥ 90%	
Operating temperatures	Standard 0°C ~ 45°C Discharge -20°C ~ 65°C Storage -20°C ~ 45°C	
Impedance (Max, at 1000Hz.)	≤ 45mΩ	
Storage performance	Capacity can be kept ≥ 80% in storage for 12months	Battery should be kept at -20°C ~ 45°C where it's dry, clean and well-ventilated.