



LiFePO₄ 36V 50Ah Battery Specifications

Item	Specification	Description/Remark
Model	AT-LFP-36-50BV01	36V 50Ah LiFePO ₄ battery
Chemistry	Lithium Iron Phosphate (LiFePO ₄)	
Battery dimensions	483mm x 170mm x 240mm	L x W x H
Weight	19kg	
Cell type	Prismatic 3.2V 50Ah	
Battery module	12 pcs 3.2V 50Ah cells, 1 parallel and 12 serial	
Casing material for single cell	Nickel plated steel	
Standard capacity (0.2C _{5A})	38.4V 50Ah / 1920Wh	
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	38.4V	Working voltage per cell: 3.2V
Maximum Charge voltage	43.8V	Max. charge voltage per cell: 3.65V
Cut-off voltage	Nominal 30V	Battery cells are disconnected once the lowest cell reaches 2.50V
Depth of Discharge (DoD)	100%	Batteries can be discharged to 100% of the rated capacity
Optimum charge current	10A	0.2C
Charging time	Approximately 5 hours	When charging from low voltage cut-off point
Rapid charging	Max. charge current 50A (1C _{3A})	Temperature increase falling within 15°C is normal. Over 15°C will affect the service life of the cells.
Max continuous discharge current	70A	1.4C
Peak discharge current	140A	2.8C (3 seconds)
Discharge performance at normal temperature	10A (0.2C) ≥ 100% 50A (1C) ≥ 90%	
Operating temperatures	Standard 0°C~45°C Discharge -20°C~65°C Storage -20°C~45°C	
Impedance (Max, at 1000Hz.)	≤ 20mΩ	
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.