

LiFePO₄ 48V 50Ah / 70A Battery

Item	Specification	Description/Remark
Model	AT-LFP-48-50BV01	48V 50Ah LiFePO ₄ battery, 70A continuous discharge rate
Chemistry	Lithium Iron Phosphate (LiFePO ₄)	
Battery dimensions	490mm x 171mm x 240mm	L x W x H
Weight	23.2kg	
Cell type	3.2V 50Ah	
Battery module	16 pcs 3.2V 50Ah cells, 1 parallel and 16 serial	
Casing material for single cell	Aluminum casing	
Standard capacity (0.2C5A)	51.2V 50Ah / 2560Wh	
Cycle life	> 2000 cycles at 100% Depth of Discharge (DoD) with the battery capacity retention ≥ 80%	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
Max charge voltage	57.6V	Max. charge voltage per cell: 3.6V
Cut-off voltage	40-44.8V	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
Standard charge current	10A	0.2C
Rapid charging	Max. charge current 50A (1C)	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
Discharge performance in normal temperature	10A (0.2C ₃ A) ≥ 100% 50A (1C ₃ A) ≥ 90%	
Operating temperatures	Charge 0°C~45°C Discharge -20°C~65°C Storage -20°C~45°C	
Impedance (Max, at 1000Hz.)	≤ 15mΩ	
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.