



LiFePO₄ 24V 100Ah / 100A Battery Specifications





Item	Specification	Description/Remark
Model	AT-LFP-24-100AV02	24V 100Ah / 200A continuous discharge LiFePO ₄ battery
Chemistry	Lithium Iron Phosphate (LiFePO ₄)	
Battery dimensions	370mm x 190mm x 245mm	L x W x H
Weight	About 23kg	
Waterproofing	IP65	
Cell type	Prismatic 3.2V 100Ah	
Battery module	8 pcs 3.2V 100Ah cells, 1 parallel and 8 serial	
Standard capacity (0.2C ₅ A)	25.6V 100Ah / 2560Wh	
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	25.6V	Working voltage per cell: 3.2V
Maximum Charge voltage	28.8V	Max. charge voltage per cell: 3.65V
Cut-off voltage	Nominal 20V	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	20A	0.2C
Charging time	Approximately 5 hours	When charging from low voltage cut-off point
Rapid charging	Max. charge current 100A (1C)	Temperature increase falling within 15°C is normal. Over 15°C will affect the service life of the cells.
Max continuous discharge current	100A	1C, cell min voltage > 2.5v
Peak discharge current	200A	2C (10 seconds)
Discharge performance at normal temperature	20A (0.2C) ≥ 100% 100A (1C) ≥ 90%	
Operating temperatures	Charge 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.
Connecting Terminals Pos (+) & Neg (-)	M8	
IP Rating (Ingress Protection)	IP65	
Warranty	4 years	