



AT-LFP-36-50V01

AMPTRON 36V 50Ah Lithium LiFePO4 Batteries are an alternative replacement (AR) for most application currently using a deep cycle Gel, AGM or Flooded Lead Acid battery. The maximum continuous discharge current is 70A and peak discharge current 140A for 5 seconds.

Item	Specification	Description/Remark
Model	AT-LFP-36-50V01	36V 50Ah LiFePO4 Battery
Chemistry	Lithium Iron Phosphate (LiFePO4)	
Battery dimensions	L-483mm x W-170 x H-240mm	
Weight	19kg	
Cell type	3.2V 50Ah	Prismatic cells
Battery module	12 pcs 3.2V 50Ah cells, 1 parallel and 12 serial	
Casing material for single cell	Nickel plated steel	
Standard capacity (0.2C5A)	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
Max charge voltage	43.8V	Max. charge voltage per cell: 3.65V
Cut-off voltage	Nominal 30V	Average single discharge voltage per cell: 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)	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.
Connecting Terminals Pos (+) & Neg (-)	M8	

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