

12V 150AH / 200A LIFEPO4 ABS BATTERY

AT-LFP-12150BV03



Voltage
12V



Power
200A



BCI Group Size
31



Capacity
150Ah

PRODUCT HIGHLIGHTS

Amptron has refined this model to offer a small but powerful form factor, while still offering value for money and a competitive RRP for this market space. Our latest generation 12V 150Ah battery is suitable for a variety of applications now include a new form factor which offers a 20% reduction in size compared to the previous generation.

- Reduced size form factor (330 x 172 x 215mm), 16Kg, fits BCI Group 31
- 150Ah Capacity (1920Wh)
- 4000 Cycles
- 200A Continuous Discharge Rating (400A peak)

TECHNICAL DATA

Item	Specification	Description/Remark
Model	AT-LFP-12-150-BV03	12V 150Ah / 200A Continuous Discharge Lithium LiFePO4 battery
Physical	Size	330 L x 172 W x 215 W (mm)
	Weight	About 16kg
	Connection terminals	M8
	Connection terminals torque rating	6Nm
	Casing material	ABS
	IP Rating	IP65
	Chemistry	Lithium Iron Phosphate (LiFePO4)
	Cell type	Prismatic 3.2V 150Ah
Electrical	Rated capacity	12.8V 150Ah / 1920Wh
	Battery packs in series	Supported (4)
	Battery packs in parallel	Supported
	Battery cycle life	3000 times (0.2C standard charge and discharge)
	Rated voltage	12.8V
	Operating voltage range	10.4V - 14.6V
	Shipping voltage	11-14V
	Recommended charge voltage	14.4V
	Cut-off voltage	10V / When lowest cell reaches 2.5V
	Depth of discharge (DoD)	

Item	Specification	Description/Remark
Electrical Continued	Standard charge current (Recommended)	30A
	Charging time (At recommended charge current)	4-5 Hours
	Maximum charge current	150A
	Max continuous discharge current	200A
	Peak discharge current (3 seconds)	300A (5s)
	Self-discharge per month	<3%
	Impedance	≤ 20mΩ
	Operating temperature	Charge: -0°C~ 55°C (Ambient) Discharge: -20°C ~ 60°C (Ambient)
Environmental	Storage temperature range	Within 2 months: -20°C ~ 40°C Within 6 months: -10°C ~ 35°C
	Recommended storage temperature	20°C ± 5°C
	Storage humidity range	10% - 90%
	Recommended storage duration	Charge to 13.3V OR 40 - 60% SOC every 6 months
Circuit Protection	Cell over charge protection	3.65V±0.05V
	Cell over-discharge protection	2.5V±0.1V
	High temperature protection	65±3°C