

Item	Specification	Description/Remark
<b>Model</b>	AT-LFP-12-100-V02	12V 100Ah LiFePO4 battery
<b>Chemistry</b>	Lithium Iron Phosphate (LiFePO <sub>4</sub> )	
<b>Dimensions</b>	330 x 173 x 215mm	L x W x H
<b>Weight</b>	11.5kg	
<b>Warranty</b>	4 year warranty	
<b>IP Rating</b>	IP65	
<b>Standard capacity (0.2C5A)</b>	100Ah / 1280Wh	
<b>Cycle life</b>	2000-3000 @ 100% DoD	Test conditions at 25°C, 1C / 1C charge and discharge rate. Higher cycle life can be achieved at lesser charge and discharge rates.
<b>Rated voltage</b>	12.8V	Voltage per cell: 3.2V
<b>Max charge voltage</b>	14.6V	Max. charge voltage per cell: 3.65V
<b>Cut-off voltage</b>	~10V	Battery cells are disconnected once the lowest cell reaches 2.50V
<b>Depth of Discharge (DoD)</b>	100%	Batteries can be discharged to 100% of the rated capacity
<b>Standard charge current</b>	20A	0.2C5A
<b>Max continuous discharge current</b>	100A	1C
<b>Peak discharge current</b>	30A	2C (5 seconds)
<b>Discharge performance in normal temperature</b>	20A (0.2C3A) ≥ 100% 1C3A ≥ 90%	
<b>Operating temperatures</b>	Standard 0°C~45°C Discharge -20°C~65°C Storage -20°C~45°C	
<b>Impedance (Max, at 1000Hz.)</b>	≤ 20mΩ	
<b>Storage performance</b>	Capacity can be kept ≥ 80% in storage for 12months	Battery should be kept at -20°C~65°C in a dry, clean and well-ventilated location

#### Heavy Duty - Built in Battery Protection System

AMPTRON® lithium batteries have a built-in Battery Protection System (BPS) designed to prevent damage to the cells from most external accidental occurrence that would normally cause damage. The internal BPS will automatically disconnect to prevent damage to the cells, and will automatically reconnect when the conditions return to normal range. This technology also performs internal cell balancing to pre-vent any cells developing potentially damaging imbalances when charging.

#### Internal Features:

Low Voltage Protection Switch - Automatically disconnects at 10V

Over Voltage Protection Switch - Automatically disconnects at 14.6V

Short Circuit Protection Switch - Automatically disconnects;

Internal cell balancing - The BPS balances the cells by sending more current through the length way circuit boards and into cells with a lower voltage.

The BPS will also discharge cells that exceed 3.65V during charging.