



Item	Specification	Description/Remark
Model	AT-LFP-48-100BV01	48V 100Ah / 200A cont discharge LiFePO4
		Battery
Chemistry	Lithium Iron Phosphate (LiFePO4)	
Battery dimensions	L-520mm x W-268mm x H-228mm	L x W x H
Weight	40kg	
Cell type	3.2V 100Ah	Prismatic cells
Battery module	16 pcs 3.2V 100Ah cells, 1 parallel and 16 serial	
Casing material for single cell	Aluminium	
Standard capacity (0.2C5A)	51.2V 100Ah / 5120Wh	
Cycle life	> 3000 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	51.2V	Working voltage per cell: 3.2V
Charge voltage	58.4V	Max. charge voltage per cell: 3.65V
Cut-off voltage	Nominal 40V	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
Maximum charge current	Max. charge current 50A (0.5C)	Cell max voltage < 3.9V
Max continuous discharge current	200A	2C, cell min voltage > 2.5v
Peak discharge current	500A	5C (5 seconds)
Discharge performance at normal	20A (0.2C) ≥ 100%	
temperature	100A (1C) ≥ 90%	
	Standard 0°C~45°C	
Operating temperatures	Discharge −20°C~65°C	
	Storage -20°C~45°C	
Impedance (Max, at 1000Hz.)	≤ 3.5mΩ	
Storage performance Connecting Terminals Pos (+) & Neg	Capacity can be kept \geq 80% in	Battery should be kept at -20° C ~ 45° C
	storage for 12months	where it's dry, clean and well-ventilated.
(-)	M8	
IP Rating (Ingress Protection)	IP65	Protected from total dust ingress & protected from low pressure water jets from any direction

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 prevent 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.

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