

AT-240-2440ALFPV01

AMPTRON Lithium Iron Phosphate (LiFePO₄) battery chargers have a built-in Protection System to prevent damage to the charger from almost any external accidental occurrence that would normally cause damage. The internal Protection System will automatically disconnect to prevent damage to the charger, and will automatically reconnect when the error condition has been resolved.

Protection System Features:

- Over Voltage Protection - When the charger output voltage exceeds the maximum charging voltage, the charger enters a standby state. It will restore to normal working conditions automatically after troubleshooting.
- Over Current Protection - When the charger output current exceeds the maximum charging current, the charger enters a standby state. It will restore to normal working conditions automatically after troubleshooting.
- Short Circuit Protection - When the charger detects a short circuit at output terminals, the charger enters a short-circuit protection state. It will restore to normal working conditions automatically after troubleshooting.
- Reverse Polarity Protection - When the charger detects that the polarity at the output terminals are reversed, the charger enters a reverse polarity protection state. It will restore to normal working conditions automatically after troubleshooting.

This Protection System is designed to last throughout the life of the charger and provide reliable charging for thousands of cycles.



SPECIFICATIONS

Item	Specification	Description/Remark
Model	AT-240-2440ALFPV01	AC/DC 24V 40A LiFePO ₄ Battery Charger
Input Voltage	min 200Vac to max 264Vac	
Input Power	Max 1458W	
Constant charge voltage	Vdc min 28.1V to max 29.5V	
Constant charge current	Min 38A to max 42A	
Charge complete current	Vdc min 3.0A to max 3.4A	8%
Ripple voltage	650mV	
Efficiency	85%	At full load
Product Dimensions	L-290mm x W-150mm x H-90mm	
Weight	4Kg	