

AT-240-1240ALFPV01

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-240-12-40ALFPV01	AC/DC 12V 40A LiFePO ₄ Battery Charger
Input Voltage	min 200Vac to max 264Vac	
Input Power	Max 539.7W	
Constant charge voltage	Vdc min 14.4V to max 14.8V	
Constant charge current	Min 39A to max 41A	
Charge complete current	Vdc min 1.3A to max 1.7A	
Ripple voltage	250mV	
Efficiency	85%	At full load
Product Dimensions	L-220mm x W-135mm x H-70mm	Foot Mount Bracket = L-14mm on each side of charger body
Packaging Dimensions	L-300mm x W-230mm x H-120mm	
Packaged Weight	3Kg	
Protection Category	IP55	Not suitable for outdoor use