

AT-SOLCHR-AM2430PV01

This is an advanced high-efficiency and ultra-fast Multi-peak Maximum Power Point Tracking (MPPT) solar charge controller with built-in Bluetooth. The controller is customisable and compatible with several battery types including Lithium Iron Phosphate (LiFePO4) batteries. The controller supports temperature compensation and historical data storage to provide comprehensive monitoring of your solar system.

The Maximum Power Point Tracking algorithm increases the energy efficiency, typically 15% to 20% higher than traditional PWM charging efficiency.

- The controller is compatible with Sealed Lead Acid, Gel, AGM, and Lithium Iron Phosphate batteries.
- Fast MPPT starts with ultra-fast sweeping of the entire V-I curve.
- Smart MPPT algorithm ensures better tracking in multiple power points.
- High PV harvest performance in weak sunlight conditions, advanced multi-peak tracking can accurately track the optimum power with partial shading.
- Excellent peak efficiency exceeds 98%.
- Bluetooth + Android & IOS App available.
- Support automatic identification of battery voltage.
- Overrating electronic components to minimize the power loss from heating, full charge power output up to 45°C.
- LCD screen displays key operating information and facilitates parameter settings.
- Advanced protection for battery charging & discharging.
- Built-in over-temperature protection mechanism. The charge current and load will be decreased with temperature increase to reduce the controller's temperature rise.
- Extensive electronics protections including PV reverse polarity & reverse current protection.
- Supports historical data storage with 300 days of data logging.



SPECIFICATIONS

Item	Specification	Description/Remark
Model	AT-SOLCHR-AM2430PV01	30A 12V/24V Inline MPPT Solar Charge Controller – Lithium compatible
Battery System Voltage	12V/24V	
No-load Loss	20ma (12V), 12ma (24V)	
Max. Solar input voltage	30Voc (12V batteries) 50Voc (24V batteries)	
Rated charge current	30A	
Max. usable Photo-voltaic system input power	450W/12V 900W/24V	
Operating Temperature	-20°C to +45°C	
Internal Temperature Protection	-40°C to +80°C	
IP Protection	IP45	
Product dimensions	L-150mm x W-80mm x H-35.3mm	
Weight	350g	