



The Big Blue Buildings
Mackay & Townsville

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AT-SOLCHR-AM4860NV01

This is an advanced high-efficiency and ultra-fast Multi-peak Maximum Power Point Tracking (MPPT) solar charge controller with built-in Bluetooth. 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.
- Supports external battery voltage sampling in order to compensate for voltage drop and losses in the wiring, allowing more accurate setting of control parameters.
- Supports temperature compensation by automatically adjusting or turning off the charge and discharge parameters to avoid battery overheating to prolong battery life.
- LCD screen displays key operating information and facilitates parameter settings.
- Advanced protection for battery charging & discharging.
- No cooling fan, over-rated heatsink, and electronic components. Built-in over-temperature protection mechanism. The charge current and load will be decreased with temperature increase to reduce the controller's temperature rise.
- Allowance for exceeding the rated solar input power by max 25% without controller damage.
- Extensive electronics protections including PV reverse polarity & reverse current protection.
- Supports historical data storage with 300 days of data logging.
- Supports standard RS 485 MODBUS protocol for external communications.
- The controller is negatively grounded.
- Optional external LCD monitor available.



SPECIFICATIONS

Item	Specification	Description/Remark
Model	AT-SOLCHR-AM4860NV01	60A 12V/24/36/48V AM MPPT Bluetooth Solar Charge Controller – Lithium compatible
Battery System Voltage	12V/24V/36V/48V Auto (FLD/GEL/SLD) Manual (Li/User)	
No-load Loss	12ma (12V), 10ma (24V), 2ma (48V)	
Max. Solar input voltage	<150Voc	
Rated charge current	60A	
Max Load Output Current	20A	
Max. usable Photo-voltaic system input power	900W/12V 1800W/24V 2600W/36V 3200W/48	
Light Control Voltage	5V*n	
Light Control Delay Time	10s	
Operating Temperature	-35°C ~ +45°C	
IP Protection	IP32	
Communication Port	RS485	Modbus protocol
Altitude	≤ 3000m	
Product dimensions	L-280mm x W-210mm x H-90mm	
Weight	3.0kg	