

Titan Max MPPT Solar Charge Controller



Titan Max MPPT Solar charge controller

EverExceed's Titan Max MPPT solar charge controller is an advanced maximum power point tracking (MPPT) battery charger for off-grid photovoltaic (PV) systems .

The controller provides the industry's highest peak efficiency and significantly less power loss compared to other MPPT controllers along with unique safety features make it universal top-grade charge controller.

The Titan Max MPPT features a smart tracking algorithm that maximizes the energy produce from the PV by rapidly finding the solar array peak power point with extremely fast sweeping of the entire I-V curve..

Product feature:

- Titan Max series MPPT controller that is truly suitable for lithium batteries adopts a unique circuit design and has a lithium battery activation function to ensure perfect matching with lithium batteries.
- Advanced High-efficient MPPT algorithm, MPPT efficiency $\geq 99.5\%$, Max. charge efficiency up to 98%, 30% more than PWM controller ;
- Fanless design for long-term reliability and long service life.
- Excellent performance at sunrise and low solar isolation levels.
- Automatic battery voltage recognition (compatible with 12V/24V).
- Due to build in oversize heat sink to dissipation, Titan Max controller can continuous operation at full power to 45°C without reducing power .
- USB output(5V/1A), Convenient to charge mobile phones and Pad.
- RS485 communication port for software, WIFI module & Bluetooth can remote monitoring and setting on our phone APP.(Optional)

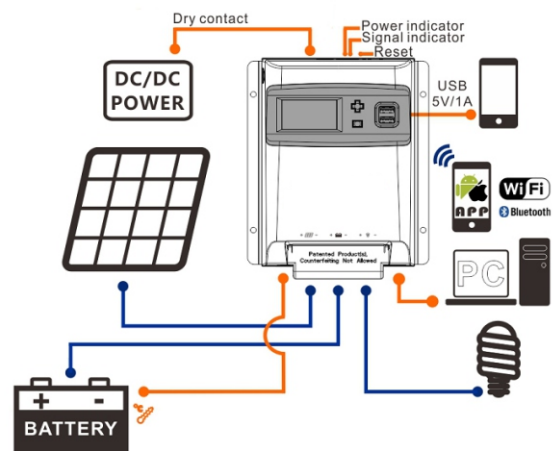


Electronic protection function:

- Battery low voltage protection.
- Battery over voltage protection.
- Load over current protection.
- Over temperature protection.
- PV reverse protection.
- Battery reverse protection.
- Short circuit protection.
- Anti-surge protection.

Application

- Oil and Gas
- Residential
- Rural Electrification
- RV, Caravans and Boating
- Security and Surveillance
- Telecommunications



Technical specification

Model	T10M	T20M	T30M	T40M
Controller Type	MPPT (Maximum Power Point Tracking)			
Peak MPPT Efficiency	≥99.5%			
Max. Charge Efficiency	≥98.0%			
No Load Consumption	≤45mA at 12V; ≤37mA at 24V			
Battery Voltage	12V/ 24V Auto recognize			
Heat Dissipating Method	Natural-cooling(With an oversize aluminum heat sink)			
Input characteristics				
Maximum PV Input Voltage (Voc)	DC 100V/DC 150V(Optional)			
PV Start Charging Voltage Point	Battery voltage+5V			
PV Low Voltage Protection Point	Battery voltage+2V			
Maximum PV Power(12V)	130W	260W	390W	520W
Maximum PV Power(24V)	260W	520W	780W	1040W
Charge characteristics				
Battery Types	Lithium battery, Gel battery, AGM battery, Flooded battery, User- defined			
Rated Charge Current	10A	20A	30A	40A
Charge Method	4 stages: Bulk charge, Boost charge, Float Charge, Equalizing Charge			
Load characteristics				
Rated DC Output Current	Same as battery voltage			
Low Voltage Disconnect Protection	The default protection point is 10.5V (Adjustable)			
USB Charging Port	5V/1A			
Display and communication				
Display	LCD display			
Communication	RS232/RS485/Bluetooth/WIFI(Optional)			
Other Parameters				
Protections	Battery low voltage, Battery over voltage, Load over current, Short circuit, Reverse current at night, Over temperature, PV reverse, Battery reverse, Lightning and Transient Surges.			
Operating Ambient Temperature	-20°C to 60°C -4°F to 140°F			
Storage Temperature	-30°C to 80°C -22°F to 176°F			
Humidity	≤95%, No condensation			
Ingress Protection	IP30			
Net Weight	0.365kg	0.530kg	0.840kg	1.130kg
Product Size	155.5*127*42.5mm	174.5*145*50mm	195*160*60mm	215.5*174*65mm



EVEREXCEED CORPORATION

Address: Floor 19A, Kechuang Building, Hengchangrong High Tech.
Park, Dezheng Road, Shiyan, Bao'an District, Shenzhen,
China

Tel: +86 -755 - 21638065

Web: www.everexceed.com

