

Titan MPPT Solar Charge Controller



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EverExceed's Titan 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 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 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 ;
- Recognition of multiple power points during shading or mixed PV arrays.
- 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 controller can continuous operation at full power to 45°C without reducing power.
- USB output(5V/1A), Convenient to charge mobile phones and Pad.



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	T10	T20	T30	T40	T50	T60
Controller Type	MPPT (Maximum Power Point Tracking)					
Peak MPPT Efficiency	≥99.5%					
Max. Charge Efficiency	≥98.0%					
No Load Consumption	≤10mA at 12V; ≤15mA at 24V					
Battery Voltage	12V/ 24V Auto recognize					
Heat Dissipating Method	Aluminum heat sink and Fan					
Input characteristics						
Maximum PV Input Voltage (Voc)	DC 75V		DC 100V		DC 150V	
PV Start Charging Voltage Point	PV voltage≥Battery voltage+5V					
PV Low Voltage Protection Point	PV voltage≥Battery voltage+2V					
Maximum PV Power(12V)	130W	260W	390W	520W	650W	780W
Maximum PV Power(24V)	260W	520W	780W	1040W	1300W	1560W
Charge characteristics						
Battery Types	Lithium battery, Gel battery, AGM battery, Flooded battery, User- defined					
Rated Charge Current	10A	20A	30A	40A	50A	60A
Charge Method	4 stages: Bulk charge, Boost charge, Float Charge, Equalizing Charge					
Load characteristics						
Rated DC Output Current	10A	20A	30A	40A	50A	60A
Low Voltage Disconnect Protection	The default protection point is 10.5V (Adjustable)					
USB Charging Port	5V/1A					
Display and communication						
Display	LCD display					
Communication	Bluetooth Monitoring(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	0.49kg		1.02kg		1.5kg	
Product Size	175*140*41mm		216*170*69mm		230*180*79mm	



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