

# Titan-ES Series MPPT Solar charge controller



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EverExceed's Titan-ES Star MPPT solar charge controller is an advanced maximum power point tracking (MPPT) battery charger for off-grid photovoltaic (PV) systems up to 1.68kW. 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-ES Star 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:

- MPPT efficiency 99.5%, conversion efficiency 97%
- All responsive design, more efficient, more stable.
- OLED blue display status information.
- Built-in lithium battery activation function.
- Support lead-acid batteries, lithium batteries and all kinds of battery .
- Protection function to maintain stable operation of battery or lead-acid battery system.
- Support remote monitoring of PC, wired instrument, wireless module APP.
- Dual Rj45 interfaces, integrated management and secondary development .
- CE, FCC and RoHS certificates are available.

### Electronic protection function:

- Input & output over/low voltage protection.
- Reverse polarity protection.
- Over-heating protection
- Battery shedding protection



## Technical specification

Model	T30ES	T40ES	T50ES	T60ES	
Product Category					
MPPT efficiency	99.50%				
Standby power	1W~1.8W				
Heat-Dissipating method	All aluminum alloy shell self-heating				
Battery system	12V System : 9VDC~15VDC    24V System : 18VDC~30VDC				
Settable lithium-ion battery system	8VDC~30VDC				
Input Characteristics					
Max.PV input voltage(Voc)	100VDC		150VDC		
Min.Vmpp Voltage	Battery voltage + 2V				
Start-up charging voltage	Battery voltage + 3V				
Low input voltage protection	Battery voltage + 2V				
Over voltage protection / Recovery	100VDC/95VDC		150VDC/145VDC		
Rated PV Power	12V system	420W	560W	700W	840W
	24V system	840W	1120W	1400W	1680W
	Li-ion model	432W~864W	576W~1152W	720W~1440W	864W~1728W
Charge Characteristics					
Activation for lithium battery	Optional				
Battery types	Sealed(SEL),Gel(GEL),Flooded(FLD),User-defined(USER) AGM , LiFePO4 ( 4 Strings / 7 Strings / 8 strings ) , Ternary lithium battery ( 3 Strings / 6 strings / 7 strings ) , Custom lithium ion battery ( Lit )				
Rated charge current	30A	40A	50A	60A	
Temperature compensation	-3mV/°C/2V				
Charge method	3 stages: CC (Constant current) - CV (Constant voltage) - CF (Floating charge)				
Output voltage stability accuracy	≤±0.2V				
LOAD Characteristics					
Load voltage	Same as battery voltage				
Rated load current	20A		30A		
Load control mode	On/Off , PV voltage control mode, Dual-time control mode, PV + Time control mode				
Low voltage protection	10.5V (default), 11V (restored), settable				
Setting method	PC software / APP / Controller				
Display & Communication					
Display	Blue OLED display				
Communication	Dual RJ45 port / RS485 / support PC software monitoring / support WiFi module for APP cloud monitoring / support centralized parallel monitoring				
Other Parameters					
Protections	Input & output over-volt / low-voltage protection, reverse polarity protection, over-heating protection, battery shedding protection etc.				
Operating ambient temperature	-20°C~+50°C				
Storage temperature	-40°C~+75°C				
IP(Ingress protection)	IP42				
Altitude	0~3000m				
Max. connection size	28mm²				
Recommended breaker	≥63A	≥ 63A	≥ 100A	≥ 100A	
Net Weight/Gross Weight (kg)	1.5 /1.9		2.2 / 2.6		
Product size /Packing size (mm)	220x148x64/275x176x70		245x170x69/300x198x75		





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