

Tracer Dream 150V TU Series

50A 60A / 12V-24V-48V

Product Features

- PV Max.Open circuit Voltage:150V
- Rated Charging Power & Current Limitation
- Innovative MPPT technology & ultra-fast tracking speed, Wide MPPT voltage range,Maximizes the utilization of PV modules
- Compatible with various types of batteries: lithium, gel, sealed, etc
- Stable self-activation for lithium batteries
- RS485 communication interface with optional Bluetooth or Wi-Fi modules for remote monitoring
- Parameter setting via LCD screen
- Tracking efficiency is no less than 99.5%
- Maximum DC/DC conversion efficiency of 98%
- Common negative design
- Load dry contact to control the external load switch.
- IP32 enclosure, Comprehensive electronic protections



MPPT

Parameters
adjustable

Protections

External
Bluetooth/WiFi

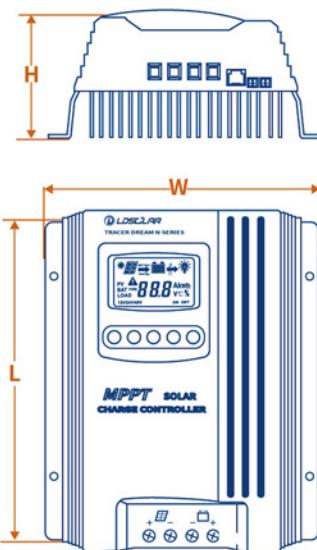
Application Scenario

Household
solar energySolar Power
Generator

Solar boat

Mechanical Size

Model	TD4515TU	TD4615TU
Rated charge current	50A	60A
Size (LxWx H)mm	277x244x111	277x244x111
Color box size(mm)	330x290x160 mm	
Outer box size(mm)	595x350x345 mm	
N.W.(Kgs.)	3 KG	3.58 KG
Carton weight(Kgs)	17.3 KG	17.3 KG
Pcs/CTN	4 pcs	4 pcs
Mounting hole size	Φ5mm	



● Please refer to the indicator diagram on the right

● Dimension reference drawing

Product Specifications

Item	TD4515TU	TD4615TU
System nominal voltage		12/24/48VDC Auto ①
Rated charge current	50A	60A
Battery voltage range		8~68V
Max. PV open circuit voltage		② 150V ③ 138V
MPP voltage range		(Battery voltage +2V)~125V
Max. PV input power	600W/12V 1200W/24V 2400W/48V	800W/12V 1600W/24V 3200W/48V
Self-consumption		≤70mA(12V)/40mA(24V)/24mA(48V)
LVD		11.0V ADJ 9V…12V; ×2/24V; ×4/48V
LVR		12.6V ADJ 11V…13.5V; ×2/24V; ×4/48V
Float voltage		13.8V ADJ 13V…15V; ×2/24V; ; ×4/48V
Boost voltage		14.4V; ×2/24; ×4/48V Battery Voltage less than 12.6V Start Boost changing for 2hours(Li-battery not)
Discharge circuit voltage drop		≤0.12V
MPPT tracking efficiency		≥99.5%
Max. Conversion efficiency		98%
Grounding		Common negative
Battery Type		Sealed(Default)/Gel/Flooded/LiFePO4/ Li(NiCoMn)O2/ User
Temperature compensate Coefficient④		-4mv/°C/2V
Dry contact		Rated value: 1A/30VDC; Max. value: 0.5A/60VDC
Communication method		RS485(5VDC/200mA)
LCD backlight time		Default: 15S
Working environment temperature◆		-20°C~+50°C(100% input and output)
Storage temperature range		-20°C~+70°C
Relative humidity		≤95%, N.C.
Enclosure		IP32

①When a lithium battery is used, the system voltage can't be identified automatically.

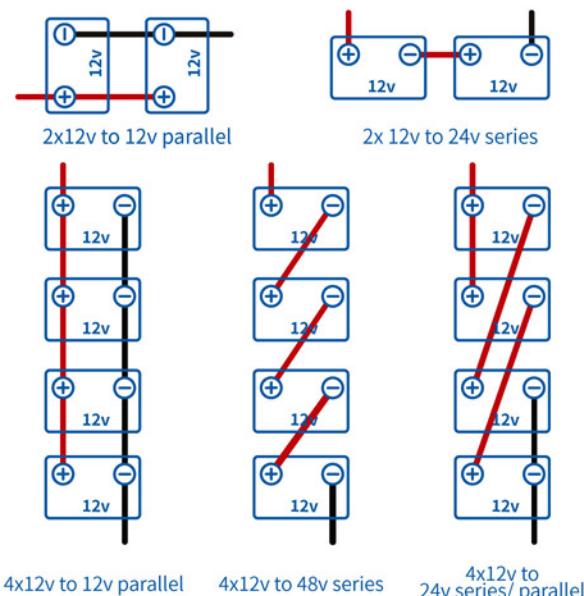
②At minimum operating environment temperature

③At 25°C environment temperature

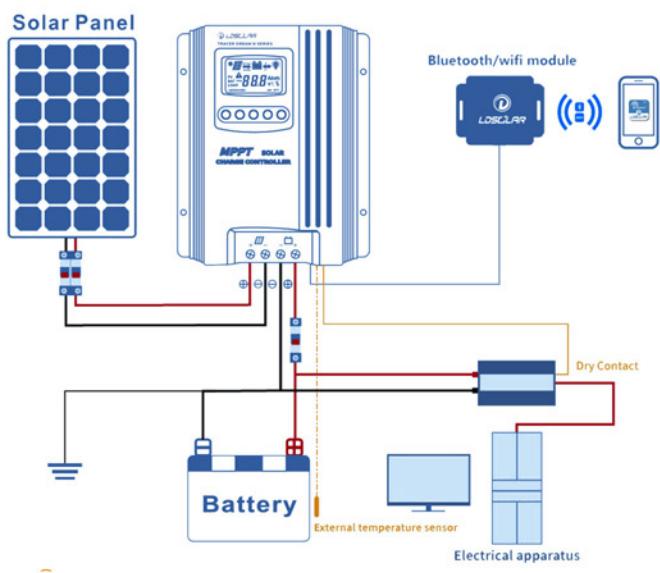
④When a lithium battery is used, the temperature compensate coefficient will be 0.

◆The controller can work under full load in the working environment temperature. When the internal temperature is more than 80°C, the reducing power charging mode is turned on.

Wiring Connection



Example Wiring Methods



Connection diagram