

Tracer Dream TU Series

20A 30A 40A 60A / 12V-24V 12V-24V-48V

Product Features

- PV Max.Open circuit Voltage:100V/120V/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%
- Multiple load work modes
- Common negative design
- IP32 enclosure, Comprehensive electronic protections



MPPT



Parameters adjustable



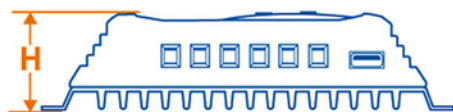
Temperature compensation



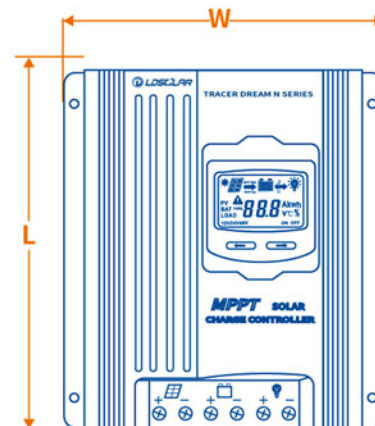
External Bluetooth WiFi(optional)

Mechanical Size

Item	TD2210TU	TD2312TU	TD2412TU	TD2612TU	TD4615TU3
Rated charge current	20A	30A	40A	60A	60A
Size (L×W×H)mm	200×127×54	200×183×54	232×200×54	232×200×85	232×200×85
N.W.(Kgs.)	0.87KG	1.2KG	1.7KG	1.9KG	2.3KG
Carton weight(Kgs)	25 KG	18.2 KG	19.6 KG	19.2 KG	19.8 KG
Outer box size(mm)	475×385×295	516×468×300	516×468×300	516×468×300	516×468×300
Pcs/CTN	24 pcs	12 pcs	9 pcs	8pcs	8pcs
Terminal scale	10mm ² /8AWG	16mm ² /6AWG	25mm ² /4AWG	25mm ² /4AWG	25mm ² /4AWG



● Dimension reference drawing



Product Specifications

Item	TD2210TU	TD2312TU	TD2412TU	TD2612TU	TD4615TU3
System nominal voltage	12/24VDC Auto ①				12/24/48VDC Auto ①
Rated charge current	20A	30A	40A	60A	60A
Rated discharge current	20A	30A	40A	60A	60A
Battery voltage range	8~32V				8~68V
Max. PV open circuit voltage	② 100V ③ 95V	② 120V ③ 110V			② 150V ③ 138V
MPP voltage range	(Battery voltage +2V)~75V	(Battery voltage +2V)~95V			(Battery voltage +2V)~125V
Rated charge power	260W/12V 520W/24V	390W/12V 780W/24V	520W/12V 1040W/24V	780W/12V 1560W/24V	800W/12V 1600W/24V 3200W/48V
Self-consumption	≤35mA(12V) ≤21mA(24V)				≤70mA(12V) ≤40mA(24V) ≤24mA(48V)
Discharge circuit voltage drop	≤0.12V				
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)				
Battery Type	Sealed(Default)/Gel/Flooded/LiFePO4/ Li(NiCoMn)O2/ User				
Grounding	Common negative				
USB Port	USB 5V1A	USB 5V1A	/	/	/
Communication port	RJ45⑤				
Temperature compensate Coefficient ④	-4mv/°C/2V				
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				

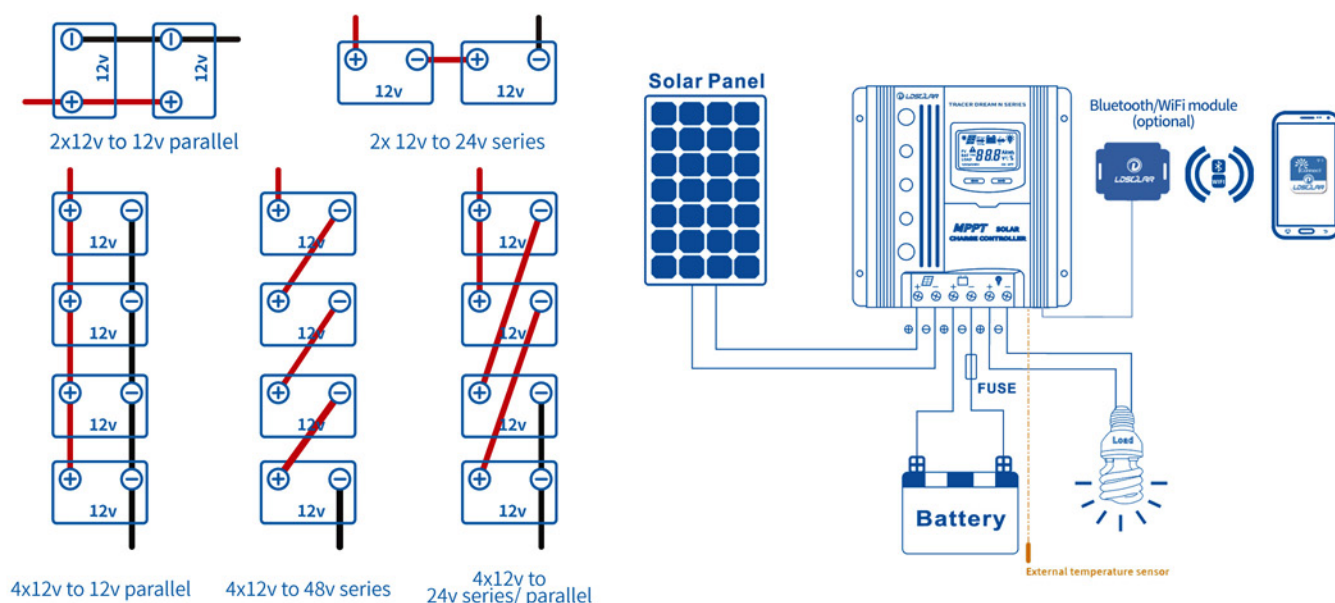
①When a lithium battery is used, the system voltage can't be identified automatically. ②At minimum operating environment temperature

③At 25°C environment temperature ④When a lithium battery is used, the temperature compensate coefficient will be 0.

⑤The built-in Bluetooth / WiFi module and RJ45 interface cannot be used at the same time

◆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