

Tracer Dream 120V TU Series

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

Product Features

- PV Max.Open circuit Voltage:120V
- 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

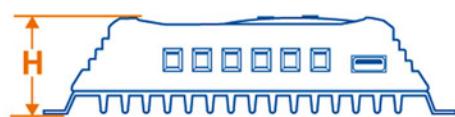


MPPT

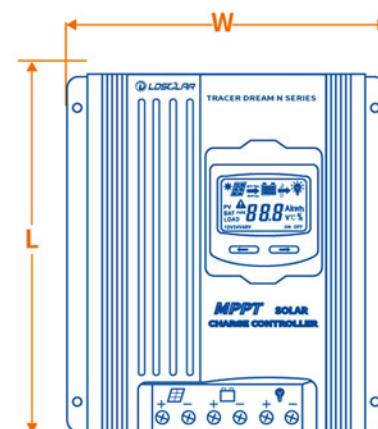
Parameters
adjustableTemperature
compensationExternal Bluetooth
WiFi(optional)

Mechanical Size

Item	TD2312TU	TD2412TU	TD2612TU
Rated charge current	30A	40A	60A
Size (L×W×H)mm	200×183×54 mm	232×200×54 mm	232×200×54 mm
N.W.(Kgs.)	1.2KG	1.7KG	1.9KG
Carton weight(Kgs)	18.2 KG	19.6 KG	20.5 KG
Outer box size(mm)	516×468×300 mm	516×468×300 mm	516×468×300 mm
Pcs/CTN	12 pcs	9 pcs	9 pcs
Terminal scale	16mm ² /6AWG	25mm ² /4AWG	25mm ² /4AWG



● Dimension reference drawing



Product Specifications

Item	TD2312TU	TD2412TU	TD2612TU
System nominal voltage		12/24VDC Auto ①	
Rated charge current	30A	40A	60A
Rated discharge current	30A	40A	60A
Battery voltage range		8~32V	
Max. PV open circuit voltage		② 120V ③ 110V	
MPP voltage range		(Battery voltage +2V)~ 75V	
Rated charge power	390W/12V 780W/24V	520W/12V 1040W/24V	780W/12V 1560W/24V
Self-consumption		≤35mA(12V) ≤21mA(24V)	
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 ADJ 14V~17V; ×2/24;	Battery Voltage less than Boost Restart Voltage Start Boost changing for 2hours
Battery Type		Sealed(Default)/Gel/Flooded/LiFePO4 / Li(NiCoMn)O2 / User	
Grounding		Common negative	
USB Port	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

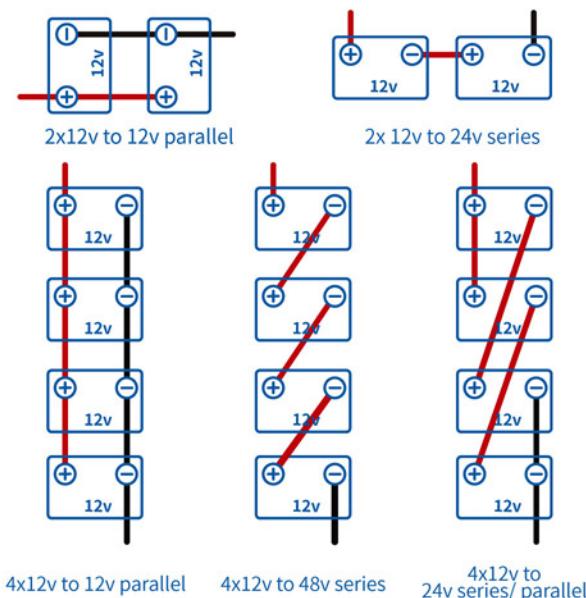
③At 25°C environment temperature

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

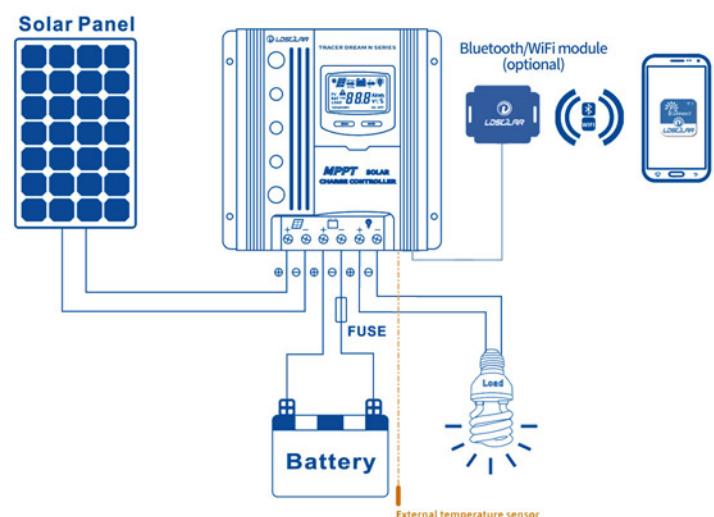
⑤The built-in Bluetooth / WiFi module and RJ45 interface cannot be used at the same time

◆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