

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 adjustable



Temperature compensation

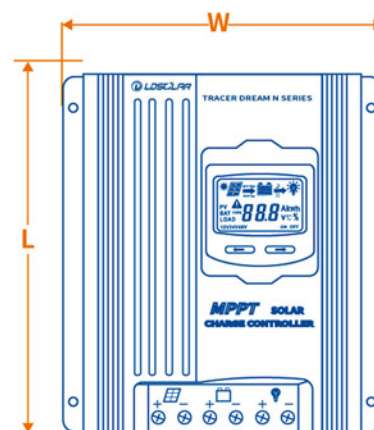
External Bluetooth
WiFi(optional)

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

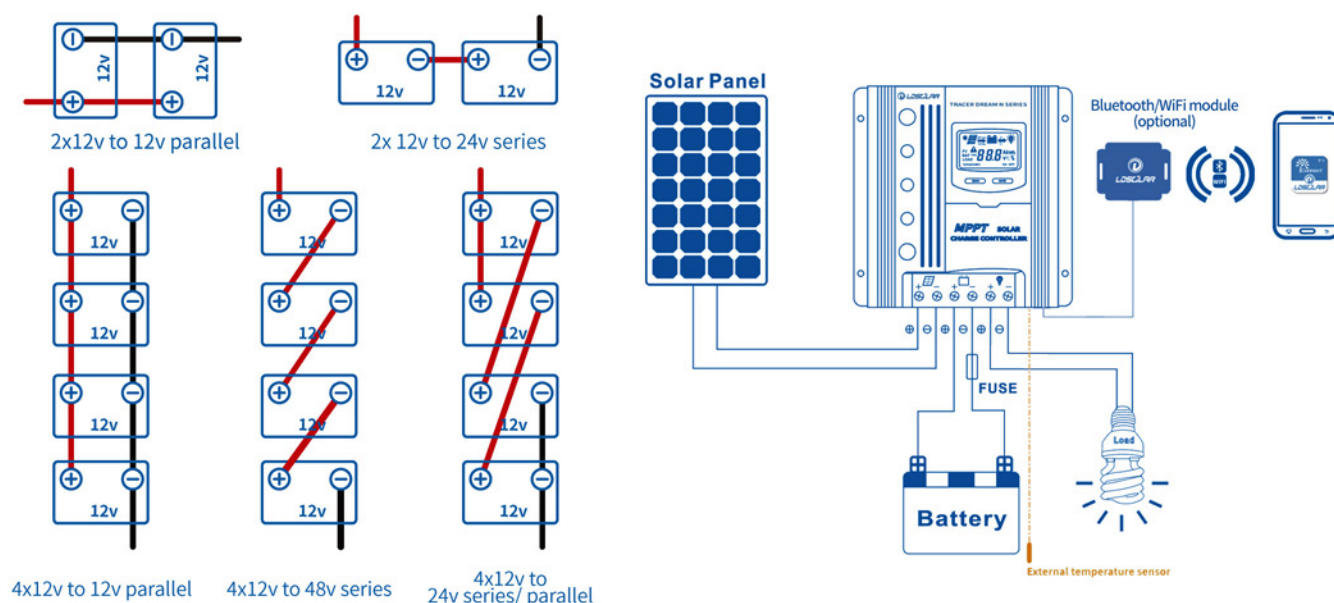
③At 25°C environment temperature

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