

Tracer Dream 50V Series

10A / 12V / 12V-24V

Product Features

- PV Max.Open circuit Voltage:50V
- One Solar Panel Connected To One Controller
- LED black screen with backlight
- Monitor and set the parameters via App(optional)
- TD1105 controller has its own MC4 interface, which can be directly connected to the solar panel
- Support the lead-acid,gel,flooded with the needed Temp. compensation and stable self-activation for lithium batteries.



MPPT



Parameters adjustable



Black LED Display

Internal Bluetooth
WiFi(optional)

Application Scenario



Solar RV

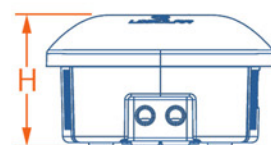


Solar Camping

Mechanical Size

| Model | TD1105 | TD2105 |
|----------------------|-------------------------|-------------------------|
| Rated charge current | 10A | 10A |
| System voltage | 12V | 12/24V |
| Size (LxWx H)mm | 120x75x43 | 120x75x43 |
| Color box size(mm) | 106x195x46 | 106x195x46 |
| Outer box size(mm) | 425x324x380 | 425x324x380 |
| N.W.(Kgs.) | 0.32 | 0.38 |
| G.W. (Kgs.) | 0.38 | 0.42 |
| Carton weight(Kgs) | 16.16 | 17.25 |
| Pcs/CTN | 50 | 50 |
| Terminal scale | 6mm ² /10AWG | 6mm ² /10AWG |
| Mounting hole size | Φ 4mm | |

● Please refer to the indicator diagram on the right



● Dimension reference drawing

Product Specifications

| Item | TD1105 | TD2105 |
|--------------------------------------|---|-------------------|
| System nominal voltage | 12V DC | 12/24VDC Auto ① |
| Rated charge current | 10A | 10A |
| Battery voltage range | 8~32V | |
| Max. PV open circuit voltage | ② 50V | ③ 48V |
| MPP voltage range | (Battery voltage +1V)~ 45V | |
| Battery Type | Sealed(Default)/Gel/Flooded/LiFePO4/ Li(NiCoMn)O2/ User | |
| Rated charge power | 130W/12V | 130W/12V 260W/24V |
| LVD | 11.0V ADJ 9V...12V; ×2/24V; | |
| LVR | 12.6V ADJ 11V...13.5V; ×2/24V; | |
| Float voltage | 13.8V ADJ 13V...15V; ×2/24V; | |
| Boost voltage | 14.4V ; ADJ14V...17V; ×2/24; Battery Voltage less than Boost Restart Voltage Start Boost changing for 2hours | |
| Self-consumption | ≤28mA(12V) ≤19mA(24V) | |
| Discharge circuit voltage drop | ≤0.12V | |
| 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.

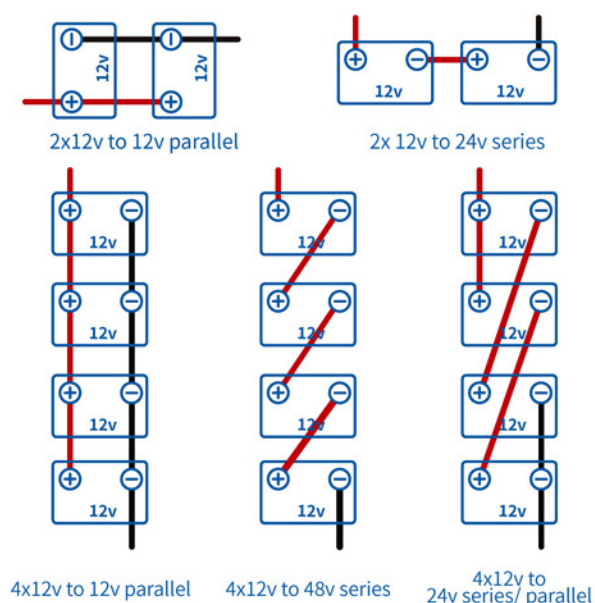
②At minimum operating environment temperature

③At 25°C environment temperature

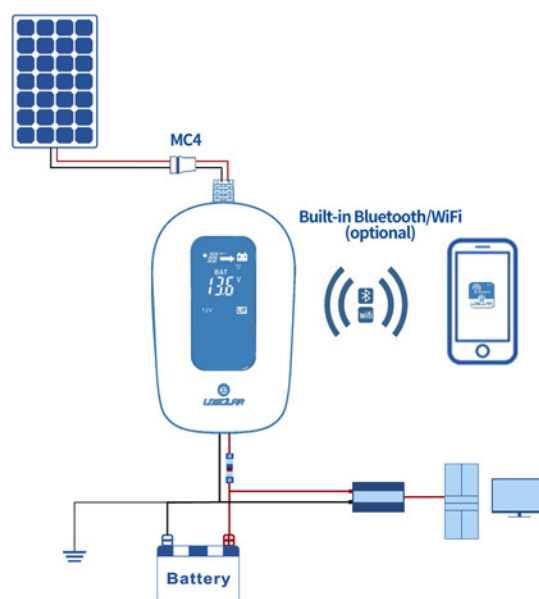
④When a lithium battery is used, the temperature compensate coefficient will be 0.

◆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