

# Tracer Dream 200V Pro Series

80A 100A / 12V-24V-48V

## Product Features

- PV Max.Open circuit Voltage:200V
- 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



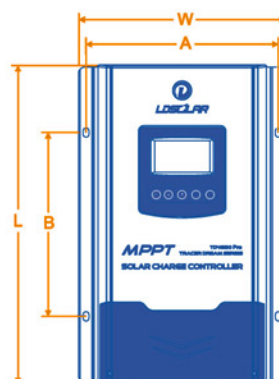
External Bluetooth/WiFi

## Mechanical Size

Model	TD4820Pro	TD41020Pro
Rated charge current	80A	100A
System voltage	12V/24V/48V	12V/24V/48V
Size ( LxWx H)mm	375x244x135.5 mm	375x244x157.5 mm
MountingDimension(A*B)mm	226×216 mm	226×216 mm
N.W.(Kgs.)	5.6 KG	6.9 KG
Carton weight(Kgs)	13.4 KG	15.6 KG
Outer box size(mm)	445x320x405 mm	
Pcs/CTN	2 pcs	



 Dimension reference drawing



## Product Specifications

Item	TD4820Pro	TD41020Pro
System nominal voltage	12/24/48VDC Auto ①	
Rated charge current	80A	100A
Battery voltage range	8~68V	
Max. PV open circuit voltage	② 200V ③ 180V	
MPP voltage range	(Battery voltage +3V)~144V	
Rated charge power	1000W/12V 2100W/24V 4200W/48V	1300W/12V 2600W/24V 5200W/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 ADJ 108V...120V; ×2/24; ×4/48V Battery Voltage less than 12.6V Start Boost changing for 2hours(Li-battery not)	
MPPT tracking efficiency	≥99.5%	
Max. Conversion efficiency	0.98	
Grounding	Common negative	
Battery Type	Sealed(Default)/Gel/Flooded/LiFePO4/ Li(NiCoMn)O2/ User	
Temperature compensate Coefficient ④	-4mv/°C/2V	
Dry contact	Rated value: 3A/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.

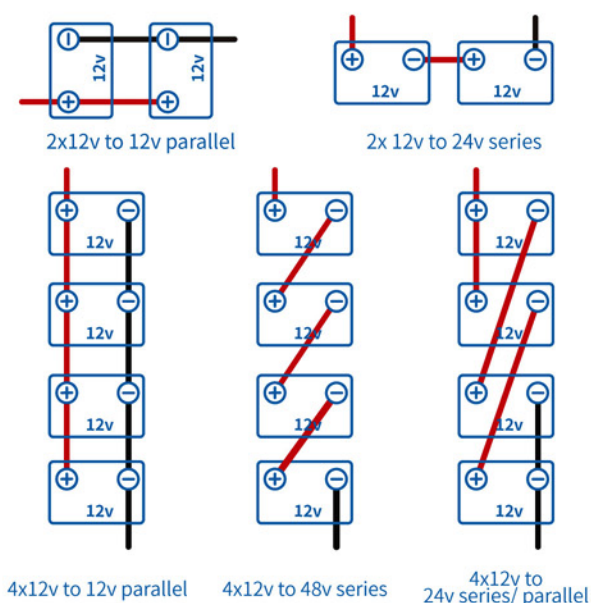
②At minimum operating environment temperature

③At 25°C environment temperature

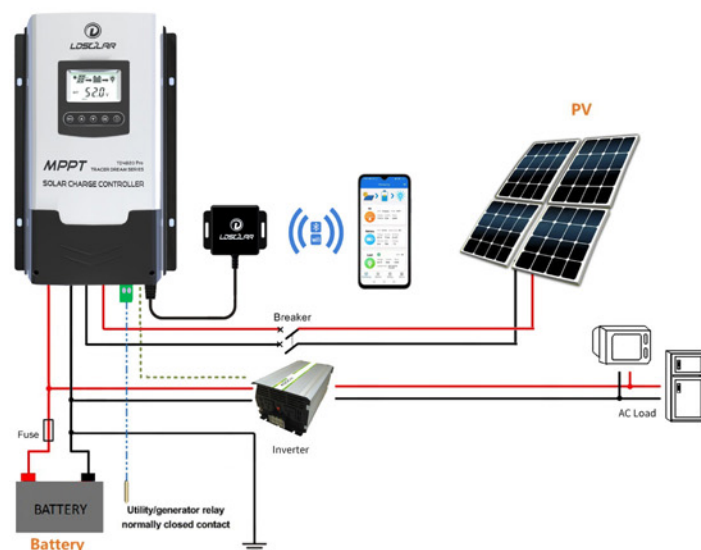
④When a lithium battery is used, the temperature compensate coefficient will be 0.

♦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