

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

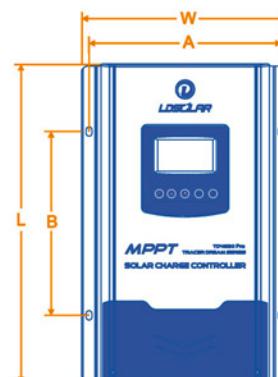
External
Bluetooth/WiFi

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
Mounting Dimension(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	$\leq 70\text{mA}(12\text{V})/40\text{mA}(24\text{V})/24\text{mA}(48\text{V})$					
LVD	11.0V ADJ 9V~12V; $\times 2/24\text{V}$; $\times 4/48\text{V}$					
LVR	12.6V ADJ 11V~13.5V; $\times 2/24\text{V}$; $\times 4/48\text{V}$					
Float voltage	13.8V ADJ 13V~15V; $\times 2/24\text{V}$; $\times 4/48\text{V}$					
Boost voltage	14.4V ADJ 108V~120V; $\times 2/24\text{V}$; $\times 4/48\text{V}$ Battery Voltage less than 12.6V Start Boost changing for 2hours(Li-battery not)					
MPPT tracking efficiency	$\geq 99.5\%$					
Max. Conversion efficiency	0.98					
Grounding	Common negative					
Battery Type	Sealed(Default)/Gel/Flooded/LiFePO4/ Li(NiCoMn)O2/ User					
Temperature compensate Coefficient ④	-4mV/ $^{\circ}\text{C}/2\text{V}$					
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 $^{\circ}\text{C}$ ~+50 $^{\circ}\text{C}$ (100% input and output)					
Storage temperature range	-20 $^{\circ}\text{C}$ ~+70 $^{\circ}\text{C}$					
Relative humidity	$\leq 95\%$, N.C.					
Enclosure	IP32					

①When a lithium battery is used, the system voltage can't be identified automatically.

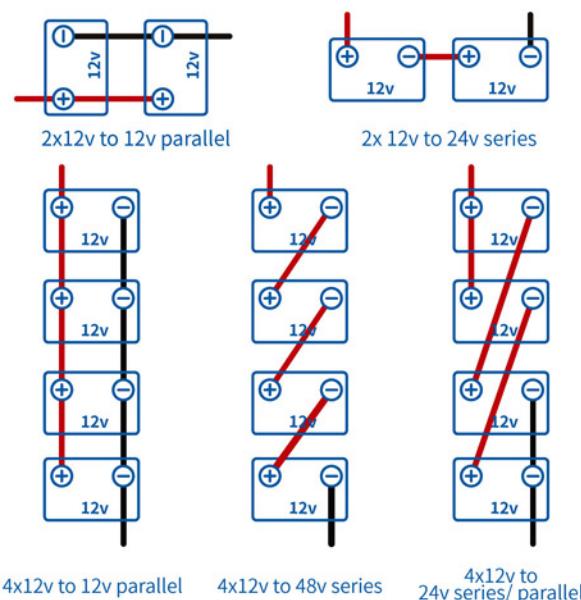
②At minimum operating environment temperature

③At 25 $^{\circ}\text{C}$ 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 $^{\circ}\text{C}$, the reducing power charging mode is turned on.

Wiring Connection



● Example Wiring Methods

