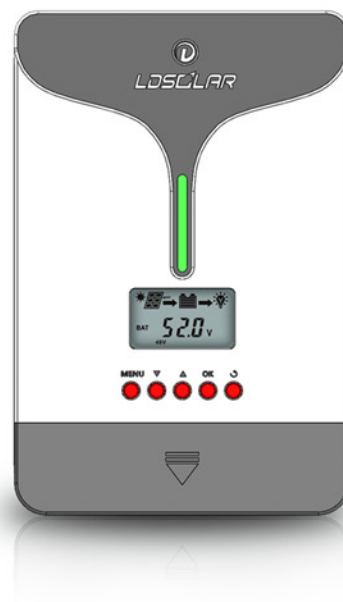


Tracer Dream F Series

60A 80A 100A 120A / 12V-24V-48V

Product Features

- PV Max.Open circuit Voltage:150V/200v/250v
- 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
- Multiple load work modes(60A only)
- IP32 enclosure, Comprehensive electronic protections



MPPT



Parameters adjustable



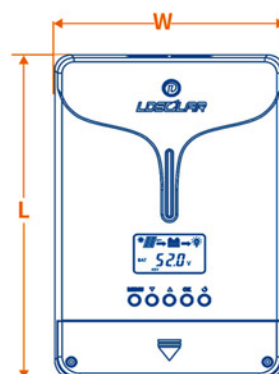
SOC Protections



External Bluetooth/WiFi

Mechanical Size

Model	TD4615F	TD4815F	TD41015F	TD4820F	TD41020F	TD41220F	TD4825F	TD41025F
Rated charge current	60A	80A	100A	80A	100A	120A	80A	100A
Rated discharge current	30A	/	/	/	/	/	/	/
PV max input voltage	150V			200V			250V	
Size (L×W×H) mm	260×200×105	316×210×110						
Mounting hole size	Φ5mm							
N.W.(Kgs.)	2.4 KG	3.8 KG	3.9 KG	3.8 KG	3.9 KG	4.0 KG	3.8 KG	3.9 KG
Carton weight(Kgs)	17 KG	18.5 KG	18.6 KG	18.5 KG	18.6 KG	19.8 KG	18.5 KG	18.6 KG
Outer box size(mm)	487×305×445	515×368×315						
Pcs/CTN	6 pcs	4 pcs						



 Dimension reference drawing

Product Specifications

Item	TD4615F	TD4815F	TD41015F	TD4820F	TD41020F	TD41220F	TD4825F	TD41025F
System nominal voltage	12/24/48VDC Auto ①							
Rated charge current	60A	80A	100A	80A	100A	120A	80A	100A
Rated discharge current	30A	/	/	/	/	/	/	/
Battery voltage range	8~68V							
Max. PV open circuit voltage	② 150V ③ 138V		② 200V ③ 180V			② 225V ③ 250V		
MPP voltage range	(Battery voltage +2V)~ 108V		(Battery voltage +2V)~ 144V			(Battery voltage +2V)~ 190V		
Max. PV input power	800W/12V 1600W/24V 3200W/48V	1000W/12V 2100W/24V 4200W/48V	1300W/12V 2600W/24V 5200W/48V	1000W/12V 2100W/24V 4200W/48V	1300W/12V 2600W/24V 5200W/48V	1500W/12V 3000W/24V 6000W/48V	1000W/12V 2100W/24V 4200W/48V	1300W/12V 2600W/24V 5200W/48V
Self-consumption	≤50mA(12V)/37mA(24V)/27mA(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 ; ×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	98%							
Grounding	Common negative							
Battery Type	Sealed(Default)/Gel/Flooded/LiFePO4/ Li(NiCoMn)O2/ User							
Temperature compensate Coefficient ④	-4mv/°C/2V							
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.

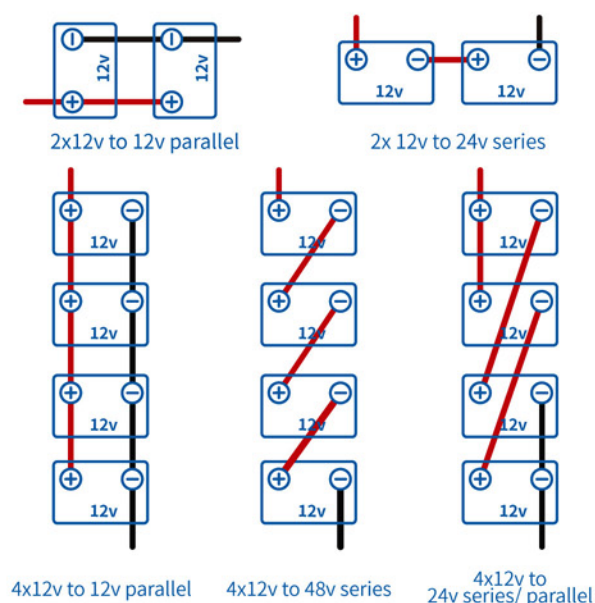
②At minimum operating environment temperature

③At 25°C environment temperature

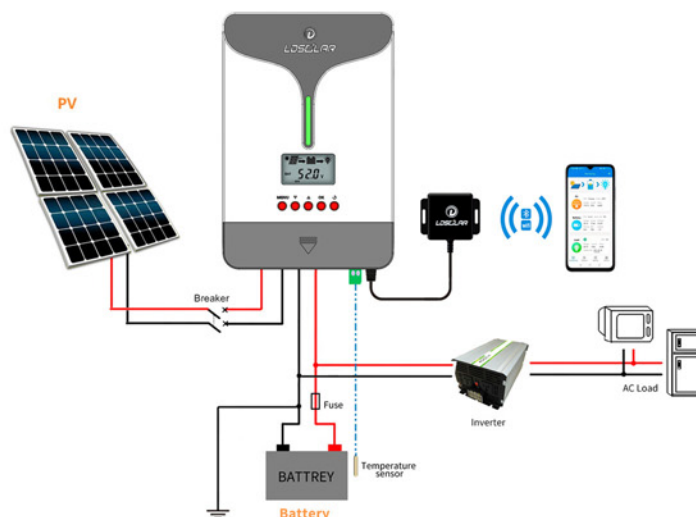
④When a lithium battery is used, the temperature compensate coefficient will be 0.

◆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