Product Features



- PV Max.Open circuit Voltage:60V/100V
- Rated Charging Power & Current Limitation
- Innovative MPPT technology & ultra-fast tracking speed, 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 seeting via LCD screan
- IP30 enclosure, Comprehensive electronic protections

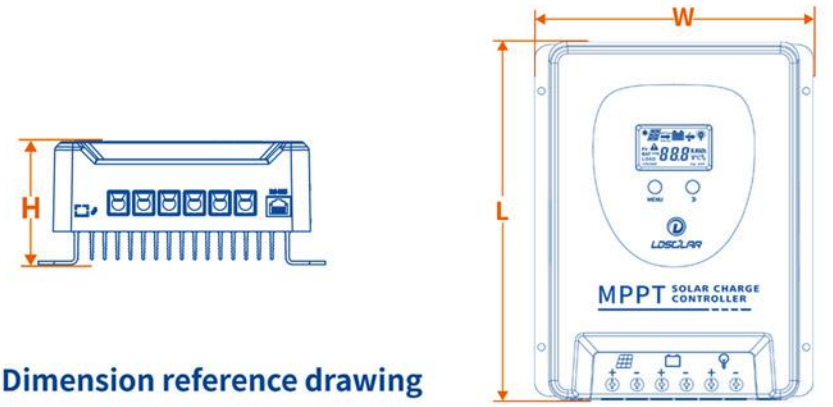
MPPT | Parameters adjustable | Temperature compensation | External Bluetooth WiFi(optional)

Application Scenario

Solar RV | Household solar energy | Solar boat

Mechanical Size

Item	TD2106S	TD2206S	TD2110S	TD2210S	TD2310S	TD2410S	TD2510S	TD2610S
Rated charge current	10A	20A	10A	20A	30A	40A	50A	60A
Size (LxWx H)mm	164.5×136×48.5		164.5×136×48.5		175×174×60.5	204×174×60.5	246×192×82.2	
Terminal scale	6mm²/10AWG		6mm²/10AWG		10mm²/8AWG		16mm²/6AWG	
N.W.(Kgs.)	0.5 KG	0.6 KG	0.5 KG	0.6 KG	1.4 KG	1.5 KG	2.1 KG	2.2 KG
Carton weight(Kgs)	19.6 KG		19.6 KG		19.6KG		19.2 KG	
Outer box size(mm)	462×306×404		462×306×404		480×240×412		510×474×304	
Pcs/CTN	30 pcs		30 pcs		12 pcs		8 pcs	



Dimension reference drawing

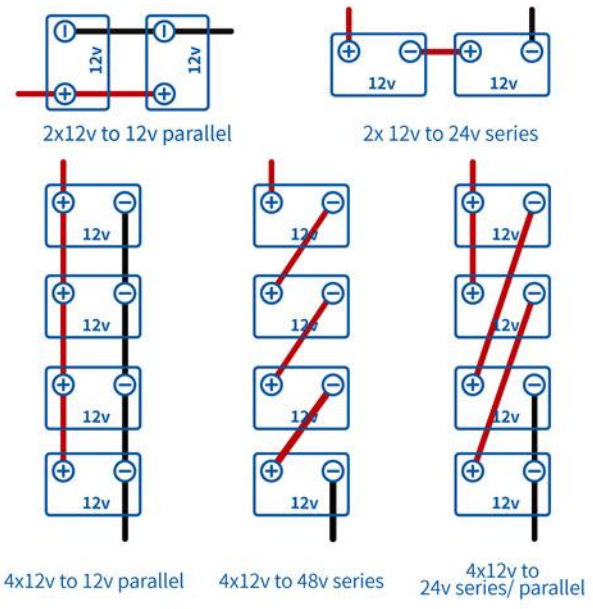
Product Specifications

Item	TD2106S	TD2206S	TD2110S	TD2210S	TD2310S	TD2410S	TD2510S	TD2610S
System nominal voltage	12/24VDC Auto ①							
Rated charge current	10A	20A	10A	20A	30A	40A	50A	60A
Rated discharge current	10A	20A	10A	20A	30A	30A	30A	30A
Battery voltage range	8～32V							
Max. PV open circuit voltage	② 60V ③ 55V		② 100V ③ 95V					
MPP voltage range	(Battery voltage +2V)～ 50V		(Battery voltage +2V)～ 75V					
Battery Type	Sealed(Default)/Gel/Flooded/LiFePO4/ Li(NiCoMn)O2/ User							
Rated charge power	130W/12V 260W/24V	260W/12V 520W/24V	130W/12V 260W/24V	260W/12V 520W/24V	390W/12V 780W/24V	520W/12V 1040W/24V	650W/12V 1300W/24V	750W/12V 1500W/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～+40°C(100% input and output)							
Storage temperature range	-20°C～+70°C							
Relative humidity	⩽95%, N.C.							
Enclosure	IP30							

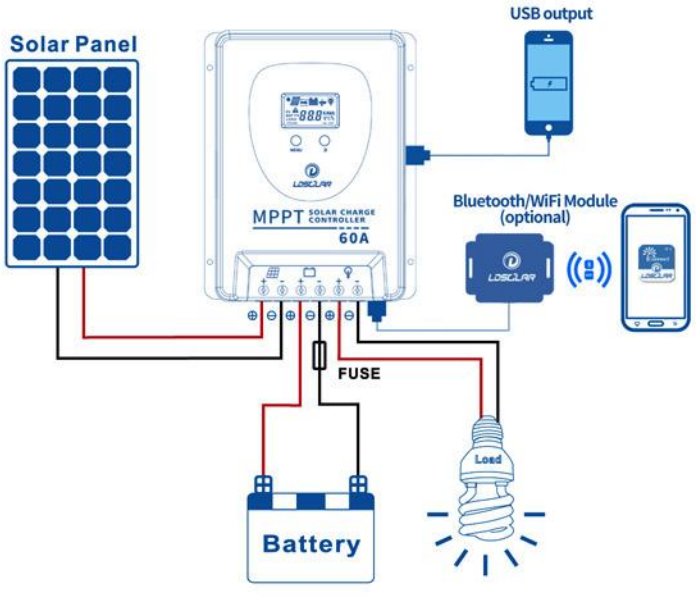
①When a lithium battery is used, the system voltage can’ t be identified automatically.
②At minimum operating environment temperature
③At 25°C environment temperature
④When a lithium battery is used, the temperature compensate coefficient will be 0.
◆The controller can work under full load in the working environment temperature, When the internal temperature is more than 80°C, the reducing power charging mode is turned on.

*This product series comes standard with a USB interface. An RJ45 interface is optionally available; when selected, the USB output is disabled. Models equipped with RJ45 are designated by adding 'R' to the base model number.

Wiring Connection



Example Wiring Methods



Connection diagram