LDSOLAR

Tracer Dream 75V Series
MPPT Solar Charge Controller

Overview

Tracer Dream 75V Series adopts MPPT technology. It's also ran by 32 bits CPU,so stability and speed can be guaranteed. Based on the synchronous rectifier technology,the transfer efficiency of circuit can be increased up to 98.5% and the Pmax tracking accuracy up to 99. 5%.So our MPPT can trace the accurate Pmax in the shortest time (10~20s) ,even when the sunlight changes rapidly. It can perfectly handle extreme weather or weak sunlight.

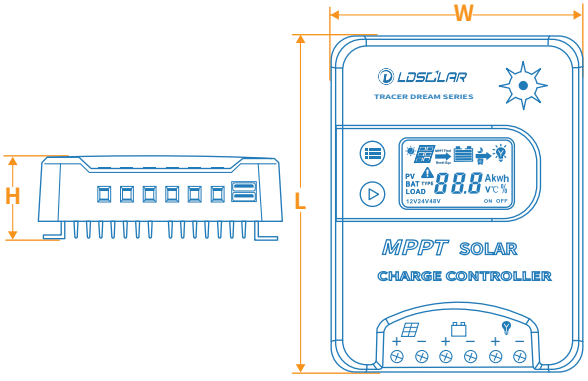
Features

- Advanced MPPT technology, fast and stable track the Maximum Power Point, tracking accuracy 99.5%
- Adopt Synchronous Rectifier Technology, significantly improve the transfer efficiency of circuit, maximum 98.5%.
- Accurately identify and track multi peak power point function
- PV array limited power input function, to ensure that the controller does not overload operation under any conditions.
- Widely range of Maximum Power Point of PV array, Max PV input Voltage 75V.
- 12/24VDC system voltage automatic recognition
- Humanized LCD displaying, dynamic display operation data and working state
- Built-in operation log, account system working state
- Multi load control mode: Normal Mode, Sensor Mode, Timer and Sensor Mode
- 3 stages charging mode, Sealed, Gel, Flooded 3 types battery charging procedure selection
- Temperature Compensation Function
- Accumulation function of charging and discharging, actual time display power generation function
- Fullest digital protection functions: Reverse connection, Overcharging,Over-discharging, Overvoltage, Overload, Short circuit

Mechanical size

Model	TD2107	TD2207	TD2307
Charge and load current	15A	20A	30A
Size (L×W×H)mm	165×123×46	195×123×46	205×157 ×53
Mounting hole size	Φ5mm		
Weight(kg)	0.63	0.82	1.2
Terminal scale	10mm²/8AWG		16mm²/6AWG

Please refer to the indicator diagram on the right

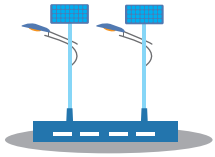


Dimension reference drawing

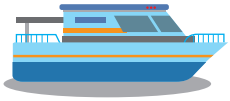
Application scenario


Solar RV


Household solar energy


Solar street lamp


Solar Power Generator


Solar boat

info@ldsolarpv.com www.ldsolar.com 0086-27-84792636

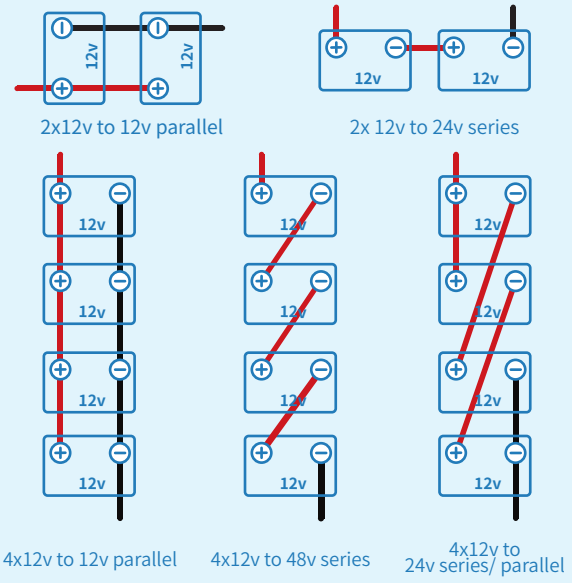
Safety Protection

- Over Charging Protection
- Over Discharging Protection
- Overload Protection
- Short Circuit Protection
- Solar Reverse Connected Protection
- EMC Protection
- Battery Reverse Connected Protection
- Power Limited Protection
- Battery Over-Voltage Protection
- Temperature Compensation
- Over Temperature Protection
- Thunder Protection
- Reverse Flow of Current Protection
- Solar Short Circuit Protection
- Overheating Power Reduction Protection
- Solar Over-Voltage Protection

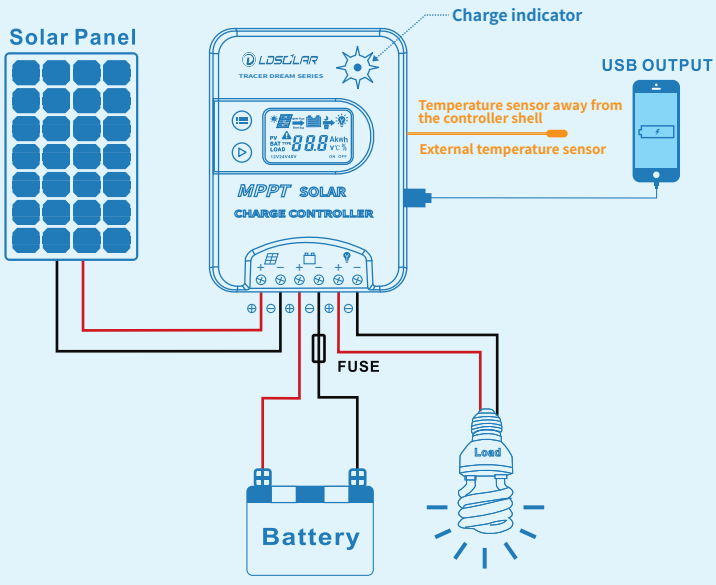
Technical specifications

Model	TD2107	TD2207	TD2307
System Voltage	12V/24V DC auto		
Working voltage range	8~32V		
Max.PV open circuit voltage	75V (Min.working temperature) 70V (25°C)		
MPP voltage range	(Battery voltage+2V) ~65V		
Discharge circuit voltage drop	≤0.25V		
Self-consumption	<23mA		
Rated charge current	15A	20A	30A
Rated discharge current	15A	20A	30A
Max.PV input power	200W/12V 400W/24V	260W/12V 520W/24V	390W/12V 780W/24V
Grounding	Common positive		
Battery type	Sealed(Default)/Gel/Flood/Lithium		
LVD※*	11.0V ADJ 9V...12V ; x2/24V ; x4/48V		
LVR※*	12.6V ADJ 11V...13.5V ;x2/24V ; x4/48V		
Float Voltage※*	13.8V ADJ 13V... 15V ; x2/24V ; M/48V		
Boost Voltage※*	14.4V ADJ 13V...17V ;x2/24 ; x4/48V battery voltage less than 12.6v auto boost 2hours		
Battery Over Voltage Protection	16.5V ; x2/24V ; x4/48V		
USB Output	5VDC/2A 2PCS		
Temperature Consumption#	For 12Vsystem:-24mV /°C ;x2/24V ; x4/48V		
Relative humidity	≤95%, N.C.		
WorkingTemperature	—20°C~+50°C(Product can work continuously at full load)		
LCD temperature range	—20°C~+70°C		
Waterproof grade	IP32		

Connection



Example Wiring Methods



Connection diagram

info@ldsolarpv.com www.ldsolar.com 0086-27-84792636