

# Lithium Battery MPPT Solar Charge Controller

## Tracer-BP series



The Tracer BP series solar charge controller adopt to the advanced Maximum Power Point Tracking charging methods, it enables the system charging and discharging management to obtain the most radical optimization. Increase the system flexibility, yet lower down the system cost. The controller support a variety of battery, for example sealed, gel, flooded and lithium battery. User can view and modify the working status and parameters. It can be widely used on solar home system, traffic signal, solar street light, solar garden lamp, etc.

### Models:

Tracer2606BP / Tracer2610BP	130W/12V	260W/24VDC	10A
Tracer3906BP / Tracer3910BP	195W/12V	390W/24VDC	15A
Tracer5206BP / Tracer5210BP	260W/12V	520W/24VDC	20A

### Features:

- Adopt high quality components of ST,IR and Infineon, make sure product using lifespan
- Wide working environment temperature(-40℃ ~ 60℃)
- Apply to lithium battery(LiFePO4/Li-NiCoMn)and battery(Sealed/Gel/Flooded)
- Lithium battery self-activating and low temperature protection function
- Maximum conversion efficiency of 98%
- Advanced Maximum Power Point Tracking (MPPT) technology, with tracking efficiency no less than 99%
- Ultra-fast tracking speed and guaranteed tracking efficiency
- Accurately recognizing and tracking of multiple power points
- PV power limitation function
- Monitoring and setting parameter via Mobile APP, PC Monitor setting software with RS485 communication interface.

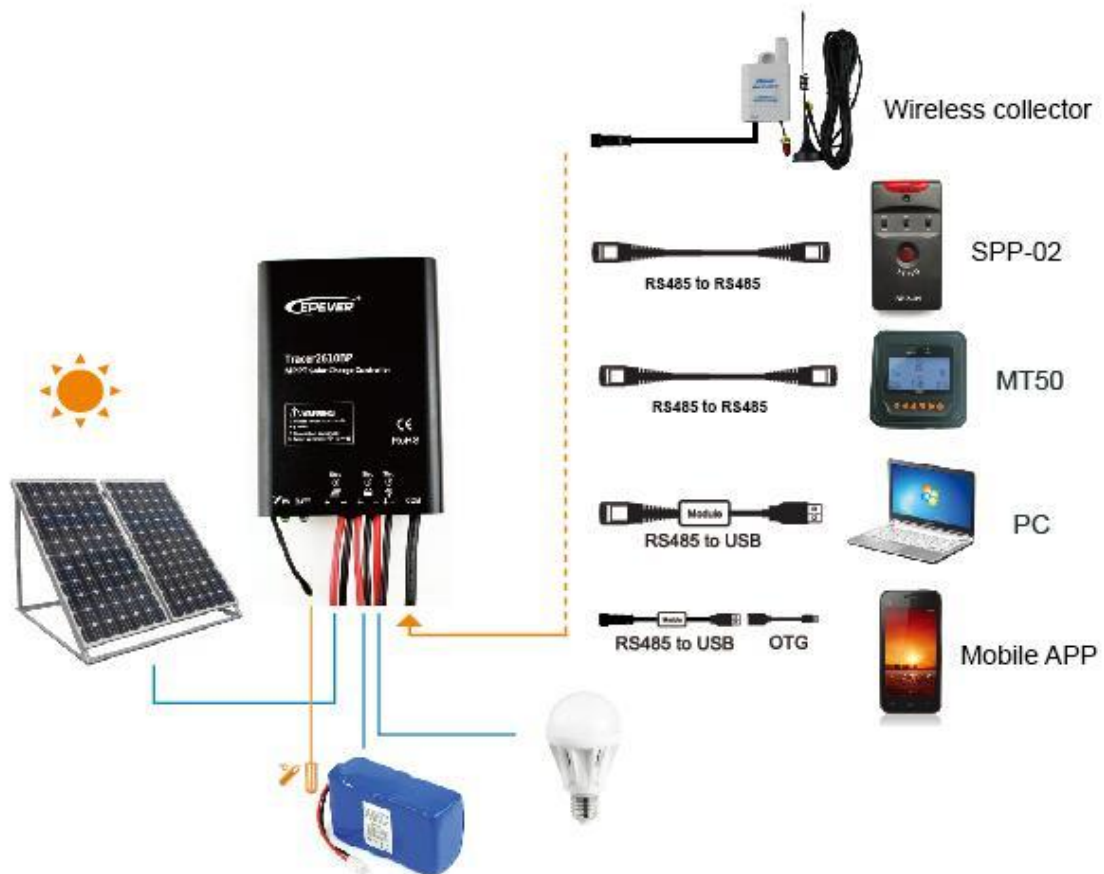
- Use of standard Modbus communication protocol for RS485 bus connections, communication protocol compatibility much better
- Connecting the IOT(Internet of Things) module and Cloud Server monitoring software to realize remote monitoring of the multi-machine system
- The RS485 connector can provide power supply
- Aluminum housing for better cooling
- Real-time energy statistics function
- IP67 waterproof degree
- Long lifespan design, five years warranty

### Load working mode:

- Manual Mode
- Light ON/OFF(Default)
- Light ON + Timer
- Real-time Control
- Intelligent Power Mode

### Electronic protections:

- PV over current protection
- PV reverse polarity protection
- Battery over voltage protection
- Battery overheating protection
- Load overload protection
- PV short circuit protection
- Battery reverse polarity protection
- Battery over discharge protection
- Lithium battery low temperature protection
- Load Short circuit protection



## Optional accessories:

### eBox-WL433M-01



Wireless collector  
Realize remote monitoring of the multi-machine system

### SPP-02



Super Parameter Programmer  
with 3 pieces communication cable for USB,TTL and RS485  
( for the controller and LED driver withMODBUS protocol )

### MT50



Remote meter  
with 2m communication cable  
( for the controller with RS485 port )

### Tracer3906EPLI-ZSPJ1-V1.10



Fixed Plate (Four)  
Overall dimension: 20×18×6mm/Mounting hole size: Φ3.5mm

### CC-USB-RS485-150U-22AWG



PC communication cable  
Length:1.5m

### OTG-12CM

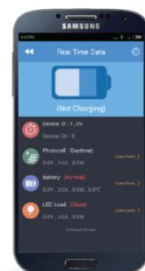


OTG cable  
Length:12cm

### PC software:



### Mobile APP:



\* Free download from website for PC software and APP.

## Technical specifications

Model	Tracer2606BP	Tracer3906BP	Tracer5206BP
	Tracer2610BP	Tracer3910BP	Tracer5210BP
Nominal system voltage	12/24VDC auto※		
Rated charge/discharge current	10A	15A	20A
Rated charge power	130W/12V 260W/24V	195W/12V 390W/24V	260W/12V 520W/24V
Max. PV open circuit voltage	Tracer**06BP: 60V at minimum operating environment temperature 46V at 25°C environment temperature Tracer**10BP: 100V at minimum operating environment temperature 92V at 25°C environment temperature		
MPP voltage range	Tracer**06BP: ( Battery voltage+2V)~36V Tracer**10BP: ( Battery voltage+2V)~72V		
Battery type	Sealed / Gel / Flooded ; LiFePO4 / Li-NiCoMn / User		
Equalize charging voltage	Sealed:14.6V(12V),29.2V(24V) /Gel: No / Flooded: 14.8V(12V),29.6V(24V); Li-battery: No		
Boost charging voltage	Sealed :14.4V(12V), 28.8V(24V)/ Gel:14.2V(12V), 28.4V(24V)/ Flooded:14.6V(12V), 29.2V(24V)/ LiFePO4:14.6V/ Li-NiCoMn:12.51V / User:9-34V		
Float charging voltage	Sealed/Gel/Flooded:13.8V(12V),27.6V(24V) LiFePO4:14.4V / Li-NiCoMn:12.39V / User:9-34V		
Low voltage reconnect voltage	Sealed/Gel/Flooded:12.6V(12V), 25.2V(24V) LiFePO4:12.0V / Li-NiCoMn:10.8V / User:9-34V		
Low voltage disconnect voltage	Sealed/Gel/Flooded:11.1V(12V),22.2V(24V) LiFePO4:10.6V / Li-NiCoMn:9.3V / User:9-34V		
Self-consumption	≤13mA/12V;≤11.5mA/24V		
Communication	RS485		
Overall dimension	124×89×30mm	150x93.5x32.7mm	153.3x105x52.1mm
Net weight	0.54kg	0.74kg	1.2kg
Enclosure	IP67		
Working environment temperature	-40°C ~ +60°C		

※ Lithium battery do not automatic identification system voltage and no temperature compensation coefficient.

\* Programmable voltage value by SPP-02 , RC-02 and APP.



### BEIJING EPSOLAR TECHNOLOGY CO.,LTD.

Add: BLDG #18, CO.PARK ,NO.8 HEYING ROAD,CHANGPING DISTRICT, BEIJING, CHINA

Tel: 86-10-82894962 / 82894112

Fax: 86-10-82894882

E-mail: info@epsolarpv.com

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