

### Overview

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.

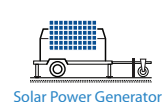
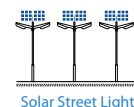
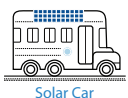


### Features

- Adopt high quality components of ST,IR and Infineon, make sure product using lifespan
- Wide working environment temperature
- Apply to lead-acid battery and lithium battery
- 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
- IP68 waterproof degree

### Electronic protections

- PV Over Current
- PV Short Circuit
- PV Reverse Polarity
- Battery Reverse Polarity
- Battery Over Voltage
- Battery Over Discharge
- Battery Overheating
- Lithium battery Low Temperature
- Load Overload
- Load Short Circuit
- Temperature sensor break down



# Technical Specifications

Model	Tracer2606BP	Tracer3906BP	Tracer5206BP	Tracer2610BP	Tracer3910BP	Tracer5210BP	Tracer7810BP
Nominal system voltage	12/24VDC Auto( Lithium battery do not automatic identification system voltage)						
Battery type	Lead-acid:Sealed(Default)/Gel/Flooded/User;Lithium:LiFePO4/Li-NiCoMn/User						
Battery input voltage range	8.5 ~ 32VDC						
Rated charge current	10A	15A	20A	10A	15A	20A	30A
Rated discharge current	10A	15A	20A	10A	15A	20A	30A
Rated charge power	130W/12V 260W/24V	200W/12V 400W/24V	260W/12V 520W/24V	130W/12V 260W/24V	200W/12V 400W/24V	260W/12V 520W/24V	390W/12V 780W/24V
Max. conversion efficiency	≤98%						
Tracking efficiency	≥99%						
Max. PV open circuit voltage	60V;46V			100V;92V			
MPP voltage range	(Battery voltage+2V) ~ 36V			(Battery voltage+2V) ~ 72V			
Equalization voltage	Sealed:14.6V/Gel:No/Flooded:14.8V/User:9-17V(×2/24V)						
Boost voltage	Sealed:14.4V/Gel:14.2V/Flooded:14.6V/LiFePO4:14.5V/Li-NiCoMn:12.5V/User:9-17V(×2/24V)						
Float voltage	Sealed/Gel/Flooded:13.8V/User:9-17V(×2/24V)						
Low voltage reconnect voltage	Sealed/Gel/Flooded:12.6V/LiFePO4:12.8V/Li-NiCoMn:10.5V/User:9-17V(×2/24V)						
Low voltage disconnect voltage	Sealed/Gel/Flooded:11.1V/LiFePO4:11.1V/Li-NiCoMn:9.3V/User:9-17V(×2/24V)						
Self-consumption	≤13mA(12V); ≤11.5mA(24V)						
Temperature compensation	-3mV/°C/2V(Lithium battery don't have temperature compensation coefficient)						
Enclosure	IP68						
RS485 interface	RS485						
Operating temperature range	-40°C ~ +60°C						-40°C ~ +50°C
Dimensions(LxWxH)(mm)	124×89×30	150×93.5×32.7	153×105×52.1	124×89×30	150×93.5×32.7	153×105×52.1	153.3×105×52.1
Weight	0.54kg	0.74kg	1.20kg	0.54kg	0.74kg	1.20kg	1.26kg