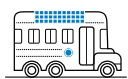


Overview

Tracer-BP series adopts advanced MPPT (Maximum Power Point Tracking) charging methods which will results in up to 30% charging efficiency increase compared with the PWM charge controllers. The RS485 interface with standard MODBUS communication protocol and 5V,150mA power supply makes it easy for the customer to expand the application. With the accessories like MT50, WiFi module, Bluetooth adapter, IoT module, users can realize remote monitoring and controlling the solar system via app and cloud platform.

Features

- MPPT (maximum power point tracking) charging
- Support lead-acid and lithium-ion batteries
- Lithium battery self-activating function
- Multi load control mode
- Extensive electronic protections
- RS 485 communication, support IoT monitoring
- IP68 Ingress protection(1.5 meters, 72h)



Solar Car



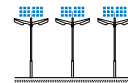
Solar Home



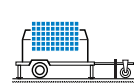
Solar Backpack



Solar Boat



Solar Street Light



Solar Power Generator

Technical Specifications

Model	Tracer2606BP	Tracer3906BP	Tracer5206BP	Tracer2610BP	Tracer3910BP	Tracer5210BP	Tracer7810BP
Nominal system voltage	12/24VDC Auto						
Battery type	Lead-acid (Sealed/Gel/Flooded)/Lithium (LiFePO ₄ /Li(NiCoMn) ₂ O ₂)/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(at minimum operating environment temperature) 46V(at 25°C environment temperature)			100V(at minimum operating environment temperature) 92V(at 25°C environment temperature)			
MPP voltage range	(Battery voltage +2V) ~ 36V	(Battery voltage +2V) ~ 36V	(Battery voltage +2V) ~ 36V	(Battery voltage +2V) ~ 72V	(Battery voltage +2V) ~ 72V	(Battery voltage +2V) ~ 72V	(Battery voltage +2V) ~ 72V
Equalization voltage	Sealed:14.6V,Flooded:14.8V,User-defined:9-17V						
Boost voltage	Gel:14.2V,Sealed:14.4V,Flooded:14.6V,User-defined:9-17V						
Float voltage	Gel/Sealed/Flooded:13.8V,User-defined:9-17V						
Low voltage reconnect voltage	Gel/Sealed/Flooded:12.6V,User-defined:9-17V						
Low voltage disconnect voltage	Gel/Sealed/Flooded:11.1V,User-defined:9-17V						
Self-consumption	≤13mA(12V); ≤11.5mA(24V)						
Temperature compensation (for lead-acid battery)	-3mV/°C/2V(default)						
Enclosure	IP68						
Communication interface	RS485 (waterproof)						
Operating temperature range	-40°C ~ +60°C	-40°C ~ +60°C	-40°C ~ +60°C	-40°C ~ +60°C	-40°C ~ +60°C	-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
Net weight	0.54kg	0.74kg	1.20kg	0.54kg	0.74kg	1.20kg	1.26kg
1. The controller can't automatically identify system voltage if lithium batteries were connected.							
2. The voltage point is for 12V system, please *2 in 24V system.							