

Tracer-BPL series

Lithium Battery Solar Charge Controller with built in LED Driver



The Tracer-BPL series lithium battery MPPT solar charge controller combines solar charge controller and LED constant current driver into one unit which is ideal for solar LED Lighting, especially when dimmer function is needed. The advanced Maximum Power Point Tracking charging methods enables the system charging and discharging management to obtain the most radical optimization. Increase the system flexibility, yet lower down the system cost.

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)
- High tracking efficiency no less than 99.5%
- Maximum conversion efficiency of 98%
- Ultra-fast tracking speed and guaranteed tracking efficiency
- Accurately recognizing and tracking of multiple power points
- Digital precision constant current control
- Maximum output efficiency of 96%
- Output current adjustable
- Real-time energy statistics function
- PV and Load power limitation function
- Connecting the IOT module and Cloud Server monitoring software to realize remote monitoring of the multi-machine system

ELECTRONIC PROTECTIONS

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

Application



PRODUCT FAMILY

<p>Tracer2606BPL Tracer2610BPL Tracer3906BPL Tracer3910BPL Tracer5206BPL Tracer5210BPL 12/24V 10A, 15A,20A</p>	<p>eBox-WL433M-01 Wireless collector (Realize remote monitoring of the multi-machine system)</p>	<p>SPP-02 Super Parameter Programmer (for bulk quantity products setting)</p>	<p>Fixed Plate (Four) Overall dimension 20×18×6mm Mounting hole size Φ3.5mm</p>
<p>PC software</p>	<p>Mobile APP</p>	<p>CC-USB-RS485 -150U-22AWG PC communication cable</p>	<p>OTG-12CM OTG cable (12cm)</p>

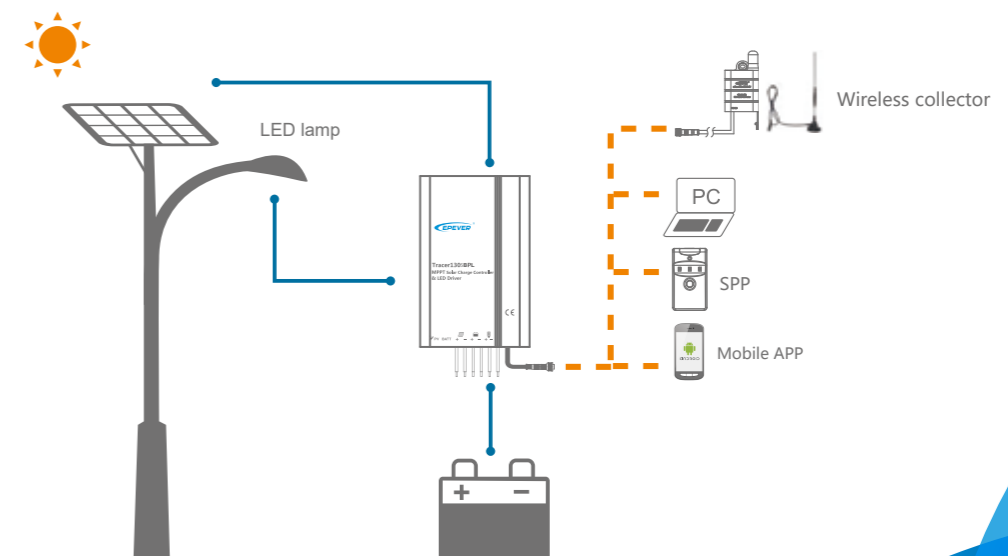
TECHNICAL SPECIFICATIONS

Model	Tracer2606BPL Tracer2610BPL	Tracer3906BPL Tracer3910BPL	Tracer5206BPL Tracer5210BPL
Nominal system voltage	12/24V Auto #		
Rated charge current	10A	15A	20A
Rated charge power	130W/12V	195W/12V	260W/12V
	260W/24V	390W/24V	520W/24V
Max. PV open circuit voltage	Tracer**06BPL: 58V at Min. operating environment temp., 46V at 25℃ environment temp. Tracer**10BPL: 95V at Min. operating environment temp., 92V at 25℃ environment temp.		
MPP voltage range	Tracer**06BPL: (Battery voltage+2V)~36V, Tracer**10BPL: (Battery voltage+2V)~72V		
Max. output current	3.3A	4.5A	6.6A
Max. output power	100W	130W	200W
Output voltage range	Tracer**06BPL: (Max. battery voltage+2V)~58V Tracer**10BPL: (Max. battery voltage+2V)~80V		
Load open circuit voltage	Tracer**06BPL: 58V, Tracer**10BPL: 80V		
Equalize charging voltage※	Sealed :14.6V/Gel: No / Flooded: 14.8V※ ; No		
Boost charging voltage※	Sealed :14.4V, Gel: 14.2V, Flooded: 14.6V, LiFePO4: 14.6V, Li-NiCoMn: 12.51V, User: 9-34V		
Float charging voltage※	Sealed/Gel/Flooded: 13.8V, LiFePO4: 14.4V, Li-NiCoMn: 12.39V, User: 9-34V		
Low voltage reconnect voltage※	Sealed/Gel/Flooded: 12.6V, LiFePO4: 12.0V, Li-NiCoMn: 10.8V, User:9-34V		
Low voltage disconnect voltage※	Sealed/Gel/Flooded: 11.1V, LiFePO4: 10.6V, Li-NiCoMn: 9.3V, User: 9-34V		
Self-consumption	≤15mA(12V); ≤22mA(24V)		
Temp. compensation	-3mV/°C/2V		
Maximum output efficiency	96%		
Output current control accuracy	≤30mA		
Dimension	124×89×30mm	150×93.5×32.7mm	153×105×52.1mm
Net weight	0.52kg	0.73kg	1.18kg
Enclosure	IP67		
Working environment temperature	-40℃ ~ +60℃		

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

※The parameters are in 12V system at 25 °C, please double the values in 24V system.

※Programmable voltage value by SPP-02 , PC and APP.



All product specifications are subject to change without notice.