

MPPT Solar charge controller



New Tracer series

New Tracer series is EPsolar's second generation of MPPT controller. Compared with CLASSIC Tracer series, it has extensive communication ability. And the die-cast aluminum design ensures excellent heat dispersion.

Compared to conventional PWM controller, MPPT technology increases the charge efficiency up to 30% and potentially decrease the power of solar array needed.











Models:

Tracer1215BN, 10A, 12/24V auto work Tracer2215BN, 20A, 12/24V auto work Tracer3215BN, 30A, 12/24V auto work Tracer4215BN, 40A, 12/24V auto work

Features:

- ◆ Innovative MPPT technology
- ◆ Peak conversion efficiency of 98%
- High tracking efficiency up to 99%
- Several seconds tracking speed
- Die-cast aluminum design and nature cooling
- ◆ Temperature compensation



- Diversified load control to meet different requirements
- ◆ Four battery type options: Sealed, Gel, Flooded, and USER
- ◆ Intelligent lighting and timer control for solar lighting system
- Energy statistics function
- ◆ RS485 ports with MODBUS communication protocol
- Optional PC monitoring software and remote meter for real-time monitoring and battery management parameter setting
- Field upgradable firmware











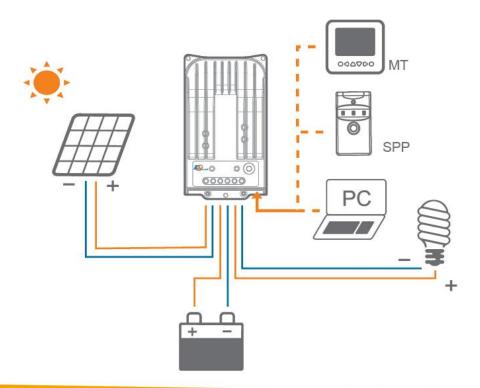




Electronic protections:

- ◆ PV short circuit protection
- ◆ PV current limiting protection
- Battery overcharge protection
- Battery reverse polarity protection
- Load short circuit protection

- ◆ PV overvoltage alarm protection
- PV reverse polarity protection
- Battery over discharge protection
- Load overload protection
- Overheating protection



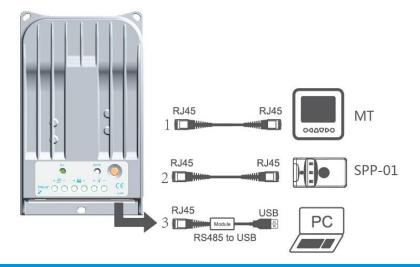












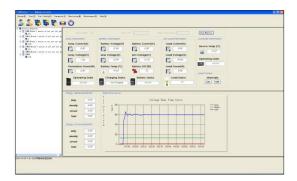
Three methods to configure the controller:

- 1-Remote Meter, MT50
- 2–Super Parameter Programmer, One-key easily configure and apply to batch setting.
- 3-PC monitoring setting software "Solar Station Monitor"

Optional accessories:



PC software:





Technical specifications

Model	Tracer1215BN	Tracer2215BN	Tracer3215BN	Tracer4215BN	
Nominal system voltage	12/24V auto work				
Rated battery current	10A	20A	30A	40A	
Rated load current	10A	20A	20A	20A	
Max. PV open circuit voltage	150V				
Max. battery voltage	32V				
Max. PV input power	130W (12V)	260W (12V)	390W (12V)	520W (12V)	
	260W (24V)	520W (24V)	780W (24V)	1040W (24V)	
Equalize charging voltage	Sealed: 14.6V, Flooded: 14.8V, USER: 9~17V				
Boost charging voltage	Gel: 14.2V, Sealed: 14.4V, Flooded: 14.6V, USER: 9~17V				
Float charging voltage	Gel /Sealed /Flooded: 13.8V, USER: 9~17V				
Low voltage reconnect voltage	Gel /Sealed /Flooded: 12.6V, USER: 9~17V				
Low voltage disconnect voltage	Gel /Sealed /Flooded: 11.1V, USER: 9~17V				
Self-consumption	≤50mA(12V) ≤27mA(24V)				
Grounding	Common negative				
Temp. compensation	-3mV/°C/2V				
Communication port	RS485 / RJ45 interface				

Mechanical	Tracer1215BN	Tracer2215BN	Tracer3215BN	Tracer4215BN
Overall dimension	196x118x36mm	217x143x56mm	281x160x60mm	303x183x64mm
Terminal	4mm ²	10mm ²	16mm ²	25mm ²
Net weight	0.9kg	1.5kg	2.3kg	2.9kg
Enclosure	IP30			

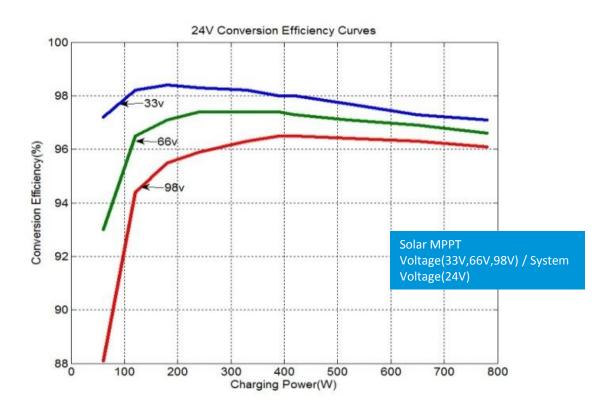


Environmental	
Working temperature	-35℃~+55℃
Storage temperature	-35℃~+80℃
Humidity	≤95% N.C.

Conversion efficiency curves:

Illumination Intensity: 1000W/m² Temperature: 25 ℃

Test model: Tracer3215B





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

Tel: 010-82894962 / 82894112

Fax: 010-82894882

E-mail: info@epsolarpv.com