

MPPT Solar charge controller



Features:

- MPPT technology
- Peak conversion efficiency of 97%
- High Tracking efficiency of 99%
- Several seconds tracking speed
- 4-Stage charge with PWM output
- Nature convection cooling
- ◆ Full power output up to 45 °C
- Temperature compensation
- Sealed, Gel and Flooded battery option
- Widely used, automatically recognize day/night
- Diversified load control
- RJ45 interface &optional meter

Optional Accessories:

remote meter MT-5

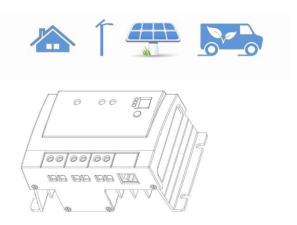




Tracer series

Tracer series controller adopts latest MPPT technology (Maximum Power Point Tracking) and advanced tracking algorithm to make the solar module operate at ideal voltage which the solar modules can product the maximum available power.

Compared to conventional PWM controller, MPPT technology increases the charge efficiency up to 30% and potentially decrease the power of solar array needed. The ability to step-down the higher voltage solar module to recharge a lower voltage battery bank greatly increases system design flexibility. The cable size can be reduced because of the small current from the solar array.



Electronic protection:

- ◆ PV short circuit protection
- ◆ PV reverse polarity protection
- PV overvoltage alarm protection
- PV over current protection
- Battery overcharge protection
- Battery over discharge protection
- Battery reverse polarity protection
- Load short circuit protection
- Load overload protection



Technical specifications

Electrical parameters	Tracer-1210RN Tracer-1215RN	Tracer-2210RN Tracer-2215RN	Tracer-3215RN	Tracer-4210RN	
Nominal system voltage	12V/24V auto work				
Rated battery current	10A	20A	30A	40A	
Rated load current	10A	20A	20A	20A	
Maximum battery voltage	32V				
Max. solar input voltage	100VDC (Tracer-1210RN)	100VDC (Tracer-2210RN)	150VDC	100VDC	
	150VDC (Tracer-1215RN)	150VDC (Tracer-2215RN)	(Tracer-3215RN)	(Tracer-4210RN)	
Max. PV input power	12V 130W	12V 260W	12V 390W	12V 500W	
	24V 260W	24V 520W	24V 780W	24V 1000W	
Self-consumption	≤10mA(24V)				
Communication	TTL232 / 8pin RJ45				
Temp. compensation	-5mV/℃/2V				

Mechanical parameters	Tracer-1210RN Tracer-1215RN	Tracer-2210RN Tracer-2215RN	Tracer-3215RN	Tracer-4210RN
Overall dimension	156x97x68mm	169x118x83mm	242x169x91mm	242x169x91mm
Mounting holes	147x60mm	160x80mm	180x160mm	180x160mm
Terminal	4mm ²	10mm ²	25mm ²	25mm ²
Net weight	0.55kg	0.95kg	2kg	2.05kg

Environmental parameters			
Working temperature	-35°C to +55°C		
Storage temperature	-35°C to +80°C		
Humidity	10%-90% NC		
Enclosure	IP30		



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