

# Tracer MPPT

## Solar Charge Controller



EPSOLAR 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 produce 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 array 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.

The Tracer series controller is ideal for off-grid solar systems and allows precise control the charging and discharging of the battery. At the same time, the low voltage disconnect function (LVD) will prevent the battery damage from battery over discharging.

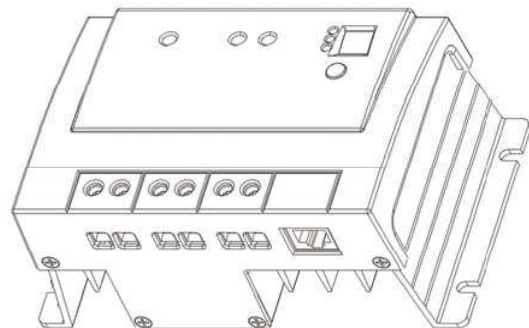
### Optional Accessories:

Remote Meter MT-5



### Key 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, Flooded battery
- ◆ Diversified load control
- ◆ RJ45 interface & optional meter
- ◆ Standard 2 years warranty
- ◆ CE certificate



### Electronic Protections:

- ◆ PV Array Short Circuit
- ◆ PV Overvoltage
- ◆ PV Overcurrent
- ◆ Load Overload
- ◆ Load Short Circuit
- ◆ PV Reverse Polarity
- ◆ Battery Reverse Polarity
- ◆ High Voltage Transients

# Tracer MPPT Solar Charge Controller

## Electrical Parameters:

Model	Tracer-1206RN Tracer-1210RN Tracer-1215RN	Tracer-2210RN Tracer-2215RN	Tracer-3215RN	Tracer-4215RN
System voltage	12VDC/ 24VDC auto work			
Max. battery current	10A	20A	30A	45A
Rated load current	10A	20A	20A	20A
Battery voltage range	32V			
Max. solar input voltage	60VDC (Tracer-1206RN)	—	—	—
	100VDC (Tracer-1210RN)	100VDC (Tracer-2210RN)	—	—
	150VDC (Tracer-1215RN)	150VDC (Tracer-2215RN)	150VDC (Tracer-3215RN)	150VDC (Tracer-4215RN)
Max. PV input power	12V system 130W 24V system 260W	12V system 260W 24V system 520W	12V system 390W 24V system 780W	12V system 585W 24V system 1170W
	Self-consumption	<10mA(24V)		
Communication	TTL232 / 8pin RJ45			
Temp. compensation	-5mV/°C/2V (25°C)			

## Mechanical Parameters:

Model	Tracer-1206RN Tracer-1210RN Tracer-1215RN	Tracer-2210RN Tracer-2215RN	Tracer-3215RN	Tracer-4215RN
Dimension	156 x 97 x 68 mm	169 x 118 x 83 mm	242 x 169x 91 mm	242 x 169x 91 mm
Mounting holes	147 x 60 mm	160 x 80 mm	180 x 160 mm	180 x 160 mm
Mounting hole size	Φ5	Φ5	Φ5	Φ5
Terminal	4mm <sup>2</sup>	10mm <sup>2</sup>	25mm <sup>2</sup>	25mm <sup>2</sup>
Weight	0.55kg	0.95kg	2.05kg	2.05kg

## Environmental Specification:

Working temp.	-35°C~+55°C
Storage temp.	-35°C~+80°C
Humidity	10%-90%(NC)
Protection	IP30 (indoor)
Altitude	≤3000m