

# TRACER MPPT

## Solar Charge Controller



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.

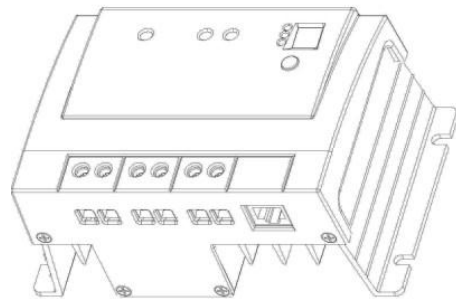
### Optional Accessories :

remote meter MT-5



### 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
- ◆ Diversified load control
- ◆ RJ45 interface & optional meter
- ◆ 2 years warranty
- ◆ CE certificate



### Electronic protection

- ◆ 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    | Tracer-1210RN<br>Tracer-1215RN | Tracer-2210RN<br>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<br>(Tracer-1210RN)      | 100VDC<br>(Tracer-2210RN)      | --                        | --                        |
|                          | 150VDC<br>(Tracer-1215RN)      | 150VDC<br>(Tracer-2215RN)      | 150VDC<br>(Tracer-3215RN) | 100VDC<br>(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       | -30mV/°C/12V (25°C)            |                                |                           |                           |

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

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