

TRACER Maximum Power Point Tracking



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

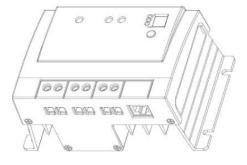




Solar controller

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
- 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 Controller

Electrical parameters	Tracer-1206RN Tracer-1210RN Tracer-1215RN	Tracer-2210RN Tracer-2215RN	Tracer-3215RN	Tracer-4215RN	
Nominal System Voltage	12V/24V auto work				
Rated Battery Current	10A	20A	30A	45A	
Rated Load Current	10A	20A	20A	20A	
Maximum Battery Voltage	32V				
Max. Solar Input Voltage	60VDC (Tracer-1206RN)	-			
	100VDC (Tracer-1210RN)	100VDC (Tracer- 1210RN)	-		
	150VDC (Tracer-1215RN)	150VDC (Tracer- 2215RN)	150VDC (Tracer-3215RN)	150VDC (Tracer-4215RN)	
Max. PV input power	12V 130W	12V 260W	12V 390W	12V 585W	
	24V 260W	24V 520W	24V 780W	24V 1170W	
Self-consumption	≤10mA(24V)				
Communication	TTL232 / 8pin RJ45				
Temp. compensation	-30mV/℃/12V(25℃)				

Mechanical Parameters	Tracer-1206RN Tracer-1210RN Tracer-1215RN	Tracer-2210RN Tracer-2215RN	Tracer-3215RN	Tracer-4215RN
Overall dimension	156x97x68mm	169x118x83mm	242x169x91mm	242x169x91mm
Mounting holes	147x60mm	160x80mm	180x160mm	180x160mm
Terminal	4mm ²	10mm ²	25mm ²	25mm²
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		