

## Overview

Tracer-AN series (10A-40A) MPPT charge controller is not only capable of up to 99.5% tracking efficiency in any situation but also provides up to 98% conversion efficiency. This crucial device automatically detects the 12V/24V system and supports multiple battery types including sealed and lithium batteries. The basic symbols displayed on the controller LCD screen helps to diagnostic the system faults simply. With intelligent protection features, this controller can be easily performed in many areas such as RV, communication stations, household systems, and field monitoring, etc.



## Features

- MPPT tracking efficiency above 99.5%
- Maximum charge conversion efficiency as high as 98%
- Support lead-acid and lithium-ion batteries
- Multiple load work modes
- Charging power and current limitation function
- High-temperature charging power derating function
- Standard Modbus communication protocol with RS485 interface
- Real-time energy statistics function



Solar Car



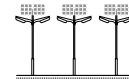
Solar Home



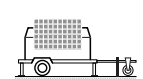
Solar Backpack



Solar Boat



Solar Street Light



Solar Power Generator

## Technical specifications

Item	Tracer1206AN	Tracer2206AN	Tracer1210AN	Tracer2210AN	Tracer3210AN	Tracer4210AN
System nominal voltage	12/24VDC <sup>①</sup> Auto					
Rated charge current	10A	20A	10A	20A	30A	40A
Rated discharge current	10A	20A	10A	20A	30A	40A
Battery voltage range	8 ~ 32V					
Max. PV open circuit voltage	60V <sup>②</sup> 46V <sup>③</sup>		100V <sup>②</sup> 92V <sup>③</sup>			
MPP voltage range	(Battery voltage +2V) ~ 36V		(Battery voltage +2V) ~ 72V			
Max. PV input power	130W/12V 260W/24V	260W/12V 520W/24V	130W/12V 260W/24V	260W/12V 520W/24V	390W/12V 780W/24V	520W/12V 1040W/24V
Self-consumption	≤12mA					
Discharge circuit voltage drop	≤0.23V					
Temperature compensate coefficient	-3mV/°C/2V (Default)					
Grounding	Common negative					
RS485 interface	5VDC/200mA					
Working environment temperature	-25°C ~ +45°C(100% input and output)					
Storage temperature range	-20°C ~ +70°C					
Relative humidity	≤95%, N.C.					
Enclosure	IP30					

Item	Tracer1206AN Tracer1210AN	Tracer2206AN Tracer2210AN	Tracer3210AN	Tracer4210AN
Dimension	172x139 x 44mm	220x154x 52mm	228x164x55mm	252x180x63mm
Weight	0.57kg	0.94kg	1.26kg	1.65kg

①When a lithium battery is used, the system voltage can't be identified automatically.

②At minimum operating environment temperature

③At 25°C environment temperature