

Overview

Tracer-AN(10A~40A)series charge controller adopts MPPT(Maximum Power Point Tracking)technology. In any situation, it can track the maximum power point (MPP) of the solar array and obtain the maximum solar energy rapidly and accurately. It can generate up to 30% more power compared with the PWM charge controller. This series can accept max.100V Voc and work with the solar panels which are designed for on-grid applications. The multifunction LCD display the system status vividly.

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



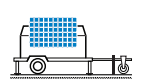
Solar Backpack



Solar Boat



Solar Street Light



Solar Power Generator

Technical Specifications

Model	Tracer1206AN	Tracer2206AN	Tracer1210AN	Tracer2210AN	Tracer3210AN	Tracer4210AN
Nominal system voltage	12/24VDC/Auto					
Battery type	Lead-acid (Sealed/Gel/Flooded)/Lithium (LiFePO ₄ /Li(NiCoMn)O ₂)/User					
Battery input voltage range	8 ~ 32V					
Rated charge current	10A	20A	10A	20A	30A	40A
Rated discharge current	10A	20A	10A	20A	30A	40A
Rated charge 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
Max. conversion efficiency	≤98.0%					
Tracking efficiency	≥99.5%					
Max. PV open circuit voltage	60V (At minimum operating environment temperature) ; 46V (At 25°C environment temperature)		100V (At minimum operating environment temperature) ; 92V (At 25°C environment temperature)			
MPP voltage range	(Battery voltage +2V) ~ 36V		(Battery voltage +2V) ~ 72V			
Equalization voltage	Sealed:14.6V,Flooded:14.8V,User-defined:9-17V					
Boost voltage	Gel:14.2V,Sealed:14.4V,Flooded:14.6V,User-defined:9-17V					
Float voltage	Gel/Sealed/Flooded:13.8V,User-defined:9-17V					
Low voltage reconnect voltage	Gel/Sealed/Flooded:12.6V,User-defined:9-17V					
Low voltage disconnect voltage	Gel/Sealed/Flooded:11.1V,User-defined:9-17V					
Self-consumption	≤12mA					
Temperature compensation (for lead-acid battery)	-3mV/°C/2V (Default)					
Relative humidity	≤95%, N.C.					
Enclosure	IP30					
Communication interface	RS485(RJ45)					
Grounding	Common negative					
Operating temperature range	-25°C ~ +45°C(100% input and output)					
Dimensions(LxWxH)(mm)	172×139×44	220×154×52	172×139×44	220×154×52	228×164×55	252×180×63
Net weight	0.57kg	0.94kg	0.57kg	0.94kg	1.26kg	1.65kg
1. The controller can't automatically identify system voltage if lithium batteries were connected.						
2. The voltage point is for 12V system, please *2 in 24V system.						