Overview

Tracer-AN G3 series is EPEVER's new generation of MPPT solar charge/discharge controller. It features adaptive 3-stage charging mode, which can maximize the use of PV power and prolong the battery life. It also includes an constant voltage output function, ensuring comprehensive and user-friendly compatibility with various lithium batteries. Under certain conditions, the PV system can directly power loads without a battery. Its excellent low power consumption design significantly reduces standby power, extending system standby time. This series is ideal for applications such as RVs, residential systems, and outdoor monitoring.

Features

- Constant voltage output function
- Maximum DC/DC conversion efficiency of 98%
- Advanced MPPT technology, with Max. tracking efficiency higher than 99.5%
- Supports multi battery types including lithium batteries
- Battery temperature compensation; Stable self-activation function
- LCD screen for battery parameter setting
- Comprehensive electronic protection
- Self-consumption lower than 10mA
- Multiple load work modes
- Parameter setting via the PC software, APP, or remote meter
- RS485 communication interface with optional 4G or Wi-Fi modules







Technical Specifications

Parameter	Tracer 1206AN G3	Tracer 2206AN G3	Tracer 1210AN G3	Tracer 2210AN G3	Tracer 3210AN G3	Tracer 4210AN G3
Electrical Parameters						
Battery Rated Voltage	12/24VDC Auto-recognition					
Rated Charging Current	10A	20A	10A	20A	30A	40A
Rated Discharge Current	10A	20A	10A	20A	30A	40A
Controller Work Voltage Range	8~31V					
PV Max.Open-circuit Voltage	60V 46V		100V 92V			
MPPT Voltage Range	(Battery voltage +2V)~36V		(Battery voltage +2V)~72V			
Rated Charging 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
Static Losses	⩽8mA(12V) ⩽5mA(24V)					
Discharge-circuit Voltage Drop	⩽0.23V					
Temperature Compensation	-3mV/℃/2V (Default)					
Grounding Type	Common negative					
RS485 Port	5VDC/200mA(RJ45)					
LCD Backlight Time	Default:60S, Range:0~999S (0 seconds: the backlight is ON all the time)					
Environmental parameters						
Work Temperature Range	-25℃~+45℃(100% loads working)					
Storage Temperature Range	-20℃~+70℃					
Relative Humidity	< 95% (N.C.)					
Enclosure	IP30					
Dimension (L x W x H)	172x139x44 mm	220x154x52 mm	172x139x44 mm	220x154x52 mm	228x164x55 mm	252x180x63 mm
Mounting Size (L x W)	124x130mm	170x145mm	124x130mm	170x145mm	170x155mm	204x171mm
Mounting Hole Size	Φ5mm					
Terminal	12AWG ($4mm^2$)	6AWG ($16mm^2$)	12AWG ($4mm^2$)	6AWG ($16mm^2$)	6AWG ($16mm^2$)	6AWG ($16mm^2$)
Recommended Wire Size	12AWG ($4mm^2$)	10AWG ($6mm^2$)	12AWG ($4mm^2$)	10AWG ($6mm^2$)	8AWG ($10mm^2$)	6AWG ($16mm^2$)
Net Weight	0.57kg	0.94kg	0.57kg	0.94kg	1.26kg	1.65kg

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