

Technical specification

MPPT Solar Regulator 12/24 V

Tracer A, 30 A



[PRODUCT WEBPAGE](#)



Tracer A series adopts common positive design and advanced MPPT control algorithm. The products can track the MPP point fast and accurately in any situation which will improve energy efficiency and obtain the maximum solar energy.



Models:

- Tracer1210A 10 A, 12/24 V auto work
- Tracer2210A 20 A, 12/24 V auto work
- Tracer3210A 30 A, 12/24 V auto work
- Tracer4210A 40 A, 12/24 V auto work

Features:

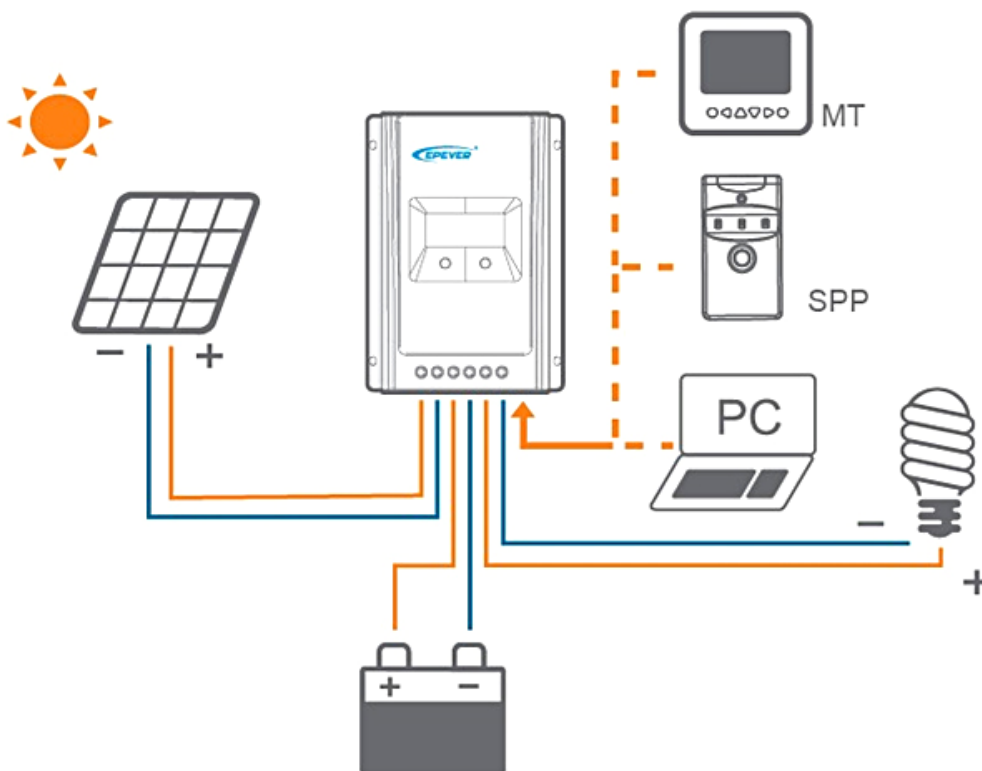
- Advanced MPPT technology
- High tracking efficiency no less than 99.5%
- Peak conversion efficiency of 98%
- Ultra-fast tracking speed
- Accurately recognizing and tracking of multiple power point
- Multi-function LCD displays system information intuitively
- User programmable for battery types, load control etc.
- 3-Stage charge with PWM output
- Common positive grounding design
- RS485 port with industrial standard MODBUS open architecture
- Fully programmable function via PC software or remote meter

Electronic protections:

- PV reverse polarity protection
- PV short circuit protection
- PV over current alarm protection
- Battery overcharge protection
- Battery over discharge protection
- Battery reverse polarity protection
- Load short circuit protection
- Load overload protection
- Overheating protection

Load Set:

- Manual Control (ON/OFF)
- Light ON/OFF (Default)
- Light ON + Timer
- Time Control



Setting Operation:

There are two methods that can modify load mode and control parameter through infrared interface:

1. Remote meter, MT50
2. Super Parameter Programmer, SPP-02
This method can realize one-key setting operation which is suitable for bulk quantity products setting or applied in the projects.
3. PC monitoring setting software "Solar Station Monitor"

Optional accessories:

			
<p>Remote meter MT50</p>	<p>Remote temperature sensor RTS300R47K3.81A</p>	<p>PC communication cable CC-USB-RS485-150U</p>	<p>Super parameter Programmer SPP-01</p>

PC software:



Technical Specifications:

Model	Tracer1210A	Tracer2210A	Tracer3210A	Tracer4210A
Nominal system voltage	12/24VDC auto work	12/24VDC auto work	12/24VDC auto work	12/24VDC auto work
Rated charge current	10 A	20 A	30 A	40 A
Rated discharge current	10 A	20 A	30 A	40 A
Battery input voltage range	8 ~ 32 V	8 ~ 32 V	8 ~ 32 V	8 ~ 32 V
Max. PV open circuit voltage	100 V (at minimum operating environment temperature) 92 V (at 25 °C environment temperature)			
MPP voltage range	VBAT +2 V ~72 V	VBAT +2 V ~72 V	VBAT +2 V ~72 V	VBAT +2 V ~72 V
Max. PV input power	130 W (12 V) 260 W (24 V)	260 W (12 V) 520 W (24 V)	390 W (12 V) 780 W (24 V)	520 W (12 V) 1040 W (24 V)
Equalize charging voltage	Sealed: 14.6 V Flooded: 14.8 V	Sealed: 14.6 V Flooded: 14.8 V	Sealed: 14.6 V Flooded: 14.8 V	Sealed: 14.6 V Flooded: 14.8 V
Boost charging voltage	Gel: 14.2 V Sealed: 14.6 V Flooded: 14.8 V	Gel: 14.2 V Sealed: 14.6 V Flooded: 14.8 V	Gel: 14.2 V Sealed: 14.6 V Flooded: 14.8 V	Gel: 14.2 V Sealed: 14.6 V Flooded: 14.8 V
Float charging voltage	13.8 V	13.8 V	13.8 V	13.8 V
Low voltage reconnect voltage	12.6 V	12.6 V	12.6 V	12.6 V
Low voltage disconnect voltage	11.1 V	11.1 V	11.1 V	11.1 V
Self-consumption	≤ 20 mA/12 V ≤ 16 mA/24 V	≤ 20 mA/12 V ≤ 16 mA/24 V	≤ 20 mA/12 V ≤ 16 mA/24 V	≤ 20 mA/12 V ≤ 16 mA/24 V
Temperature compensation coefficient	-3 mV / °C / 2 V (25 °C)	-3 mV / °C / 2 V (25 °C)	-3 mV / °C / 2 V (25 °C)	-3 mV / °C / 2 V (25 °C)
Working temperature	-25 °C ~+45 °C	-25 °C ~+45 °C	-25 °C ~+45 °C	-25 °C ~+45 °C
Enclosure	IP30	IP30	IP30	IP30
Overall dimension	172 x 139 x 44 mm	220 x 154 x 52 mm	228 x 164 x 55 mm	252 x 180 x 63 mm
Power terminals	12 AWG (4 mm ²)	6 AWG (16 mm ²)	6 AWG (16 mm ²)	6 AWG (16 mm ²)
Net weight	0.6 kg	1.1 kg	1.2 kg	1.9 kg



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EVPower a.s.
Průmyslová 11, 102 19 Prague 10
Czech Republic, European Union

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