

**Elettronica
Tirrito S.r.l.**

Led Lighting Systems



MPPT SOLAR CHARGE CONTROLLER



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MPPT Solar Charge Controller

Tracer A series



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

Features :

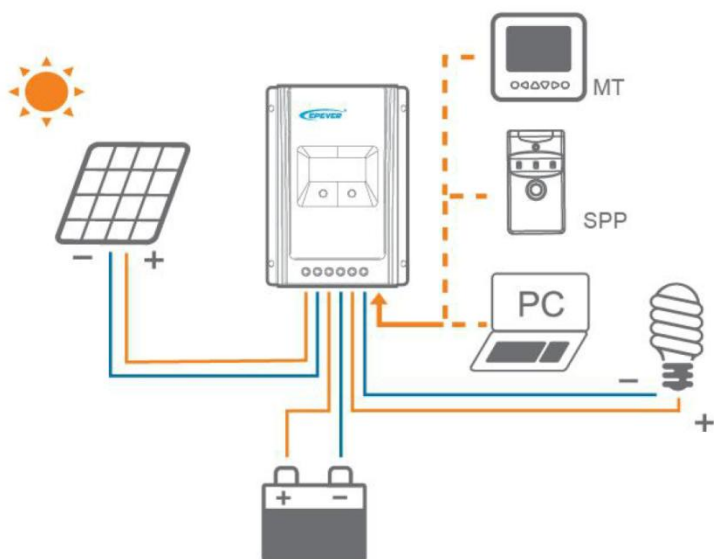
- Advanced MPPT technology
- High tracking efficiency no less than 99.5%
- Peak conversion efficiency of 98%
- Ultra-fast tracking speed
- Accurately recognizing and tracking of multiple power point
- Multi-function LCD displays system information intuitively
- User programmable for battery types, load 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 :

			
Remote meter MT50	Remote temperature sensor RTS300R47K3.81A	PC communication cable CC-USB-RS485-150U	Super parameter programmer SPP-02

PC software:



Model	Tracer1210A	Tracer2210A	Tracer3210A	Tracer4210A
Nominal system voltage	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	8-32VDC			
Max. PV open circuit Voltage	100V(at minimum operating environment temperature) 92V(at 25°C environment temperature)			
MPP voltage range	VBAT+2V~72V			
Max. PV input power	130W(12V) 260W(24V)	260W(12V) 520W(24V)	390W(12V) 780W(24V)	520W(12V) 1040W(24V)
Equalize charging	Sealed: 14.6V, Flooded: 14.8V			

voltage				
Boost charging voltage	Gel: 14.2V, Sealed: 14.6V, Flooded: 14.8V			
Float charging voltage	13.8V			
Low voltage reconnect voltage	12.6V			
Low voltage disconnect voltage	11.1V			
Self-consumption	$\leq 20\text{mA}/12\text{V}; \leq 16\text{mA}/24\text{V}$			
Temperature compensation coefficient	- 3mV/ °C/2V(25 °C)			
Working temperature	25 °C ~ +45 °C			
Enclosure	IP30			
Overall dimension	172x139x44mm	220x154x52mm	228x164x55mm	252x180x63mm
Power terminals	12AWG(4mm ²)	6AWG(16mm ²)	6AWG(16mm ²)	6AWG(16mm ²)
Peso	0.6kg	1.1kg	1.2kg	1.9kg