



## MPPT Solar Charge Controller

### Tracer-CN series



Tracer-CN series adopts common negative design and advanced MPPT control algorithm, and introduces original dry contact design to achieve the switch of external equipment. The integration design not only replaces traditional electrical design using external relay, what is more can achieve multiple control modes and working modes, it can be widely used in household system, field monitoring and communication station etc.



#### Models :

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

#### Features :



- Original dry contact design, achieve the switch of external equipment
- Multiple dry contact control mode, local, remote and cross- network
- Multiple dry contact working modes: manual control, light ON/OFF, light ON+timer and time control
- High tracking efficiency no less than 99.5%
- Peak conversion efficiency of 97.5%, full-load efficiency of 96%
- Accurately recognizing and tracking of multiple power points.
- Battery temperature compensation function
- Real-time energy statistics function
- RS485 port with industrial standard MODBUS open architecture
- Fully programmable function via PC software
- Support software upgrade

### Electronic protections:

- PV over current protection
- PV reverse polarity protection
- Battery over discharge protection
- Battery overheating protection
- PV short circuit protection
- Battery over voltage protection
- Battery reverse polarity protection
- Controller overheating protection



### Optional accessories :

	
<p>RTS300R47K3.81A Remote temperature sensor (3m)</p>	<p>CC-USB-RS485-150U-3.81 PC communication cable (1.5m)</p>

## Technical Specifications:

CE RoHS

Model	Tracer2210CN	Tracer3210CN
Nominal system voltage	12/24VDC auto work	
Rated charge current	20A	30A
Battery input voltage range	9V~32V	
Max. PV open circuit voltage	100V(at minimum operating environment temperature) 92V(at 25 °C environment temperature)	
MPP voltage range	(Battery voltage+2V)~72V	
Max. PV input power	260W(12V); 520W(24V)	390W(12V); 780W(24V)
Dry contact control range	30VDC/1A	
Communication voltage	12VDC	
Battery Type	Sealed(Default)/Gel/Flooded/User	
Equalize charging voltage*	Sealed: 14.6V, Flooded: 14.8V, User: 9~17V	
Boost charging voltage*	Gel: 14.2V, Sealed: 14.4V, Flooded: 14.6V, User: 9~17V	
Float charging voltage*	Gel /Sealed /Flooded: 13.8V, User: 9~17V	
Low voltage reconnect voltage*	Gel /Sealed /Flooded: 12.6V, User: 9~17V	
Low voltage disconnect voltage*	Gel /Sealed /Flooded: 11.1V, User: 9~17V	
Self-consumption	≤20mA(12V); ≤23mA(24V)	
Temperature compensation coefficient	-3mV/ °C/2V	
Grounding	Common negative	
Overall dimension	173x150x79.9mm	173x163x86mm
Power terminals	8AWG(10mm <sup>2</sup> )	6AWG(16mm <sup>2</sup> )
Net weight	1.21kg	1.46kg
Enclosure	IP20	
Working environment temperature	-35 °C ~+35 °C	
Relative humidity	≤95% (N.C.)	

\* Technical data for 12V system at 25 °C, twice in 24V system.

\* Programmable voltage value by PC.



BEIJING EPSOLAR TECHNOLOGY CO.,LTD.  
Add: BLDG #18, CO.PARK ,NO.8 HEYING  
ROAD,CHANGPING DISTRICT,BEIJING,CHINA  
Tel: 86-10-82894962 / 82894112  
Fax: 86-10-82894882

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