



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:

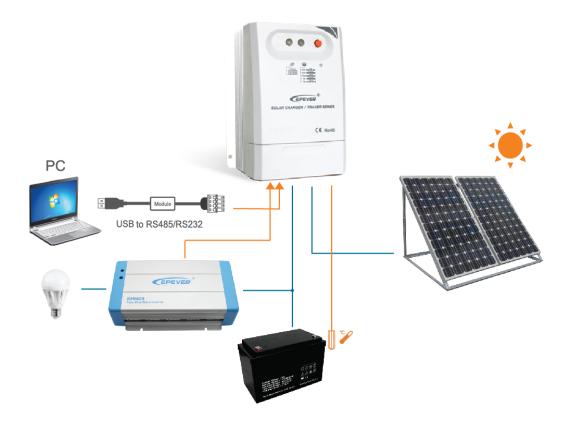
- Original dry contact design, achieve the switch of external equipment
- · Multiple dry contact control mode, local, remote and cross- network
- Multiple dry contact working modes: manual control, light ON/OFF, light ON+timer and time control
- High tracking efficiency no less than 99.5%
- Peak conversion 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:





Technical Specifications:

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|--------------------------------------|--|----------------------|
| 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 $^{\circ}$ 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 ²) | 6AWG(16mm²) |
| 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 $^{\circ}$ C, twice in 24V system.
- * Programmable voltage value by PC.



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