

EPEVER

XTRA SERIES

12/24VDC, 12/24/36/48VDC 10-40A

MPPT CHARGE CONTROLLER



99.5%

MPPT Tracking
Efficiency

97.4%

Transfer Charge
Efficiency

98.0%

Discharge Conversion
Efficiency

EPSOLAR TECHNOLOGY

XTRA Series MPPT Solar Charge Controller

XTRA series are advanced maximum power point tracking (MPPT) charge controllers, for off-grid photovoltaic systems, with optional display units (XDB1/XDS1/XDS2).

In order to maximize the energy harvest from PV arrays and simultaneously minimize the power loss within a wide range of operating conditions, the XTRA series apply an advanced smart algorithm which results in up to 30% higher efficient charging, compared to a conventional pulse width modulation PWM solar charge controller.

Xtra series controller has a limit protection function on charging current & charging power, as well as auto de-rating power operation at high temperatures; the above protection ensures the stability of the system even at exceeded rated PV power and over-temperature conditions.

Protection class IP32 and isolated RS485 communication port further improve the controller's reliability under different application requirements. XTRA series controllers incorporate a self-adaptive three-stage charging algorithm based on a digital control circuit, which effectively prolongs the lifespan of the battery and significantly improves the system performance.

It also has extensive electronic protection for overcharge, over-discharge, PV & battery reverse polarity to ensure the sustainability and durability of the off-grid solar system.



Max PV Input
60V/100V/150V

Current
10A-40A

Voltage
12V-24V/12V-48V

Specifications:

- **System nominal voltage:** 12/24VDC Auto (when a lithium battery is used, the system voltage can't be identified automatically)
- **Rated charge/discharge current:** 40A
- **Battery voltage range:** 8~32V
- **Max. PV open circuit voltage:** 92V at 25° environment temperature, 100V at minimum operating environment temperature
- **Max. PV input power:** 1040W when the battery system is 24V, 520W when the battery system is 12V
- **Battery type:** Lead-acid battery (Sealed/Gel/Flooded/User), Lithium battery(LiFePO4, Li(NiCoMn)O2, User)
- **Mounting dimension:** 200×176mm with Φ5mm mounting hole size
- **Recommended cable:** 6AWG(16mm²)



Contact Us: