













Rough environmental condition -Fine! The charge controllers with IP65 protection are reliable even with existance of dust, sand, humidity or insects.

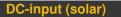
The MPT® Xtra charge controllers are especially developed to realize solar systems with a higher solar voltage. Standard charge controller are not suitable. On the market there is available a wide range of low-cost solar modules with 48 up to 72 cells with a higher voltage.

Installation time and effort is reduced because of the advantage of the series wiring of the solar modules.

In addition the Xtra MPT® charge controllers generate a higher electric power yield as well during diffused light and when the solar module temperature is high.



Technical Data



Maximum power

Maximum voltage
Recommended MPP-voltage

Maximum current

DC-output (battery)

System voltage

Voltage range

Maximum charging current (nom. power)

Types of battery

Features

Display

Final charging voltage

Final charging voltage Lithium-Ion

1 LED: green

230W

20V to 42V

9.5V to 16V

58V

14A

12V

22A

reverse current, overvoltage (fine protection), overtemperature, overload, reverse battery, short-circuit, overcurrent

Lead-Gel, AGM, Acid, Lithium-Ion (adjustable)

Derating overtemperature of the device >50°C

Interface

BATCONTROLLER®E, TTL serial, BMS, temperature sensor KTY

General Data

Efficiency

Parallel Operation

Protective Devices

Self-consumption

Cooling method

Degree of protection (IEC60529)

Temperature range (nom. power)

Dimensions (W/H/D)

Weight

Enclosure

Recommended wire cross section

Certificate

<97%

up to 8 charge controllers

13,5V to 14,7V (adjustable)

14,4V at delivery, factory modifiable

0,12W/10mA

passive cooling, without fan

IP65

-25°C to +35°C

275mm/192mm/85mm

3kg

steel, coated

 $6 \mathrm{mm}^2$

conformity EMC89/336/EEC



