



Made in
Germany

MSTE SOLAR



**5 Years
Warranty**

MPT[®] Xtra

Charge Controller

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.

MPT[®] 380-12

Technical Data

DC-input (solar)

Maximum power	380W
Maximum voltage	120V
Recommended MPP-voltage	20V to 44V
Maximum current	15A

DC-output (battery)

System voltage	12V
Voltage range	10V to 16V
Maximum charging current (nom. power)	38A
Types of battery	Lead-Gel, AGM, Acid, Lithium-Ion (adjustable)
Final charging voltage	13,5V to 14,7V (adjustable)
Final charging voltage Lithium-Ion	14,4V at delivery, factory modifiable

Features

Display	1 LED: red
Protective Devices	reverse current, overvoltage (fine protection) , over-temperature, overload, reverse battery, short-circuit, overcurrent
Derating overtemperature of the device	>50°C
Interface	TTL serial, BMS, temperature sensor KTY, external LED

General Data

Efficiency	<96%
Parallel Operation	up to 8 charge controllers
Self-consumption	0,12W/10mA
Cooling method	passive cooling, without fan
Degree of protection (IEC60529)	IP20
Temperature range (nom. power)	-25°C to +50°C
Dimensions (W/H/D)	190mm/160mm/79mm
Weight	1,6kg
Enclosure	aluminium, coated
Recommended wire cross section	6mm ²
Certificate	conformity EMC89/336/EEC