



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[®] LAST-290-12

Technical Data

DC-input (solar)

Maximum power	290W
Maximum voltage	58V
Recommended MPP-voltage	20V to 42V
Maximum current	25A

DC-output (battery)

System voltage	12V
Voltage range	9,5V to 16V
Maximum charging current (nom. power)	26A
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	BATCONTROLLER [®] E, TTL serial, BMS, temperature sensor KTY, external LED
Special Feature	integrated loadcontrol up to 6A

General Data

Efficiency	<97%
Parallel Operation	up to 8 charge controllers
Self-consumption	0,12W/10mA
Cooling method	Convection with fan >45°C, 25dB(A)
Degree of protection (IEC60529)	IP20
Temperature range (nom. power)	-25°C to +35°C
Dimensions (W/H/D)	155mm/132mm/68mm
Weight	0,7kg
Enclosure	aluminium, coated
Recommended wire cross section	6mm ²
Certificate	conformity EMC89/336/EEC