



Made in  
Germany

**MSTE SOLAR**



**5 Years  
Warranty**

# MPT<sup>®</sup> Xtra

Charge Controller

The MPT<sup>®</sup> 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<sup>®</sup> charge controllers generate a higher electric power yield as well during diffused light and when the solar module temperature is high.

MPT <sup>®</sup> 400-24	
Technical Data	
DC-input (solar)	
Maximum power	400W
Maximum voltage	58V
Recommended MPP-voltage	33V to 42V
Maximum current	14A
DC-output (battery)	
System voltage	24V
Voltage range	16V to 32V
Maximum charging current (nom. power)	20A
Types of battery	Lead-Gel, AGM, Acid, Lithium-Ion (adjustable)
Final charging voltage	27V to 29,4V (adjustable)
Final charging voltage Lithium-Ion	28,8V 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 <sup>®</sup> E, TTL serial, BMS, temperature sensor KTY, external LED
General Data	
Efficiency	<99%
Parallel Operation	up to 8 charge controllers
Self-consumption	0,24W/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)	155mm/132mm/68mm
Weight	0,7kg
Enclosure	aluminium, coated
Recommended wire cross section	6mm <sup>2</sup>
Certificate	conformity EMC89/336/EEC