



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> 900-48

### Technical Data

#### DC-input (solar)

Maximum power	900W
Maximum voltage	145V
Recommended MPP-voltage	65V to 85V
Maximum current	14A

#### DC-output (battery)

System voltage	48V
Voltage range	30V to 60V
Maximum charging current (nom. power)	22A
Types of battery	Lead-Gel, AGM, Acid, Lithium-Ion (adjustable)
Final charging voltage	54V to 58,8V (adjustable)
Final charging voltage Lithium-Ion	57,6V at delivery, factory modifiable

### Features

Display	3 LED: red, green, yellow
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	<99%
Parallel Operation	up to 8 charge controllers
Self-consumption	0,48W/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 <sup>2</sup>
Certificate	conformity EMC89/336/EEC