



Made in  
Germany

**MSTE SOLAR**



**5 Years  
Warranty**

# MPT<sup>®</sup> Up

Charge Controller

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

The MPT<sup>®</sup> Up are the ideal upward charge controllers for small modules (36 cells) with 12V solar voltage.

The MPT<sup>®</sup> Up are unique: in case of low irradiation conventional charge controller stop charging. But the MPT<sup>®</sup> Up are still working! The MPT<sup>®</sup> Up charge controllers change into pulsed operation, the solar power will be collected and pulsed to the battery. The energy yield is increased.

Quite remarkable is the very small self-consumption at night with less than 0,15mA!

## MPT<sup>®</sup> 250-36-Li

### Technical Data

#### DC-input (solar)

Maximum power	250W
Maximum voltage	28V
Recommended MPP-voltage	16,5V to 19V
Maximum current	16A

#### DC-output (battery)

System voltage	36V
Voltage range	10V to 50V
Maximum charging current (nom. power)	7A
Types of battery	Lithium-Ion
Final charging voltage Lithium-Ion	43,2V at delivery, factory modifiable

### Features

Display	1 LED: green
Protective Devices	reverse current, overvoltage (fine protection) , reverse battery (external), short-circuit (external), over-current (external)
Interface	BMS

### General Data

Efficiency	<96%
Parallel Operation	up to 8 charge controllers
Self-consumption	0,005W/0,15mA
Cooling method	passive cooling, without fan
Degree of protection (IEC60529)	IP65
Temperature range (nom. power)	-25°C to +35°C
Dimensions (W/H/D)	275mm/192mm/85mm
Weight	2,8kg
Enclosure	steel, coated
Recommended wire cross section	4mm <sup>2</sup>
Certificate	conformity EMC89/336/EEC