



Made in  
Germany

**MSTE SOLAR**



**5 Years  
Warranty**

# MPT® Dual

Charge Controller

The MPT® DUAL series are advanced multi-output MPPT charge controllers with two outputs to power two different battery systems. Typical applications are caravans or boats with two battery blocks – main- and starter battery – and often also two different types of battery. The MPT® DUAL charge controllers are also perfectly suitable to charge only one battery system.

The multiple step charging process and the cyclic gassing control make sure that the battery is charged in its optimum. The life of the battery will be extended.

## MPT® 540-12

### Technical Data

#### DC-input (solar)

Maximum power	540W
Maximum voltage	28V
Recommended MPP-voltage	16,5V to 19V
Maximum current	30A

#### DC-output (battery)

System voltage	12V
Voltage range	10V to 16V
Maximum charging current (nom. power)	50A
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	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
Special Feature	connection to 2. battery system for charge retention

### General Data

Efficiency	<99%
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	10mm <sup>2</sup>
Certificate	conformity EMC89/336/EEC