











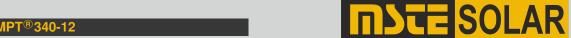
Certificate



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

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.



Technical Data

| DC-input (solar) | |
|-------------------------|--------------|
| Maximum power | 340W |
| Maximum voltage | 28V |
| Recommended MPP-voltage | 16,5V to 19V |
| Maximum current | 21A |

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|--------------------------------------------------------------------|-----------------------------------------------|
| DC-output (battery) | |
| System voltage | 12V |
| Voltage range | 9,5V to 16V |
| Maximum charging current (nom. power) | 30A |
| Types of battery | Lead-Gel, AGM, Acid, Lithium-Ion (adjustable) |
| System voltage Voltage range Maximum charging current (nom. power) | 9,5V to 16V 30A |

| Final charging voltage 13,5V to 14,7V (adjustable) Final charging voltage Lithium-lon 14,4V at delivery, factory modifiable | | |
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| Final charging voltage Lithium-lon 14.4V at delivery, factory modifiable | Final charging voltage | 13,5V to 14,7V (adjustable) |
| right of an group for any formation of the area of the | Final charging voltage Lithium-Ion | 14,4V at delivery, factory modifiable |

| Features | |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Display | 1 LED: green |
| 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 |

| interiace | ture sensor KTY |
|---------------------------------|------------------------------------------------------|
| 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) | IP65 |
| Temperature range (nom. power) | -25°C to +35°C |
| Dimensions (W/H/D) | 275mm/192mm/85mm |
| Weight | 3kg |
| Enclosure | steel, coated |
| Recommended wire cross section | 6mm ² |

conformity EMC89/336/EEC