Magic 24/24-20



Product code: 81300200



The Magic models can regulate the voltage both up and down to ensure an optimal voltage stabilisation, even when the battery voltage fluctuates due to heavy loads. The galvanic isolation between input and output prevents disruptions to, for instance, communication equipment.

- · Professional use.
- · Converter and 3-step battery charger.
- · Parallel switchable.
- · Adjustable and programmable output voltage.
- · Voltage stabilisation for a longer lifespan of halogen lights, etc.
- · Dimmer function for Mac & Magic models.

The isolated Magic models provide galvanic isolation between input and output circuits. Features:

- · Extra touch-proof.
- · Interference suppression for sensitive equipment.
- · Available with negative or positive grounding.

Programmable via desktop or laptop or PC

Remote control the Magic via your laptop or PC or configure your personal preferences. The device has a communication port and easy installation with a PC-Link and MasterAdjust software.

Energy-saving dimmer function

Many standard light dimmers convert part of the energy to heat and also lose unnecessary energy. The Magic converters regulate the power supply efficiently and without excessive heat build-up, for optimal safety (multiple converters can be used for multiple lamps).

Parallel operation

Lots of consumers on board?

The parallel configuration of several units will provide you over 100 amperes. Advanced high-frequency technology with modern microprocessors ensures minimum power loss when switching from 24 to 12 V and vice versa.

For the toughest tasks

The Magic DC-DC converters are designed for the toughest conditions for professional, semi-professional and recreational purposes. Even under the most extreme conditions, these DC-DC converters operate faultlessly, giving you round-the-clock output when necessary. The sustainability and technologies that underpin the Mastervolt concept have long been proven in practice. With an MTBF of 280,000 hours at full capacity and 24/7 use, the DC-DC converters are ideal for the toughest tasks and any situation that requires a reliable power supply.

Magic as power supply

The Magic models can be fully used as a stabilised power supply: From 12 to 24 V, from 24 to 12 V or from 24 to 24 V. Inputs and outputs are galvanically isolated.



Solid Connections

Galvanized brass connection block with screw terminal or chrome-plated fast-on for DC in/out for the Mac/Magic models.

3-Step battery charger

Connected to the 12 or 24 V service battery, the Mac/Magic series can also be used as an advanced 3-step battery charger for Gel, AGM, flooded or Lithium Ion batteries.



Specifications

General specifications

Output voltage Nominal output voltage (adjustable with MasterAdjust) Output voltage dimmer (adjustable with MasterAdjust) Output voltage stabilisation Output voltage ripple (peak peak) Max. output power Nominal output power Max. output current Output charge current (3-step mode) Nominal input voltage Input voltage range Input voltage range (3-step charge mode) Lower input set point (adjustable with MasterAdjust) Delay lower input set point (adjustable with MasterAdjust) Galvanic isolation Voltage limited Efficiency Parallel configuration Dimmer function

Alarm contact Dimensions, hxwxd

Weight

Compliance

Technical specifications

No-load consumption Battery types 3-Step charge option DC consumption Connections Temperature range (ambient temp.)

Cooling Protection degree Protections MasterBus compatible

20-28.5 V 27.2 V 8-26 V 2 % at extremes of temperatures, load and input max. 1 % 580 W 580 W 20 A 16 A 24 V 19-32 V 24-32 V 20 V 30 sec. yes yes >90 % (nom. input voltage, full load); peak 92 % yes yes, by external momentary switch via fast-on connection, to be activated by DIP switch setting yes, through MasterBus 227 x 154 x 81 mm 8.9 x 6.1 x 3.2 inch 1.8 kg 4.0 lb CE

< 2 mA flooded, Gel, AGM, spiral, Lithium Ion, traction, user defined yes (DIP switch settings) < 115 mA screw terminals (max. wire size 16 mm² / AWG5) -25 °C to 60 °C, derating > 40 °C -13 to 140 °F maintenance free vario fans IP21 against over load & over temperature yes, in combination with a MasterBus Serial Interface

