Mass series

High-quality battery chargers and inverters

Maximum operational safety

Suitable for the most extreme conditions

The right choice for demanding conditions





For the toughest tasks

Mass battery chargers, sine wave inverters and DC-DC converters are designed for the toughest conditions for professional, semiprofessional and recreational purposes. Even under the most extreme conditions the products from the Mass series operate faultlessly, giving you round-the-clock output when necessary. The sustainability and technologies that underpin the Mass concept have long been proven in practice.

With an MTBF of 280,000 hours at full capacity and 24/7 use, the Mass products are ideal for the toughest tasks and any situation that requires a reliable power supply. You can always rely on their proven and technically advanced components.

Making the best even better

The reliability and long lifespan of Mastervolt's battery chargers, sine wave inverters and DC-DC converters have been established beyond doubt over the past decade. While the Mass products have evolved with the latest technological developments, the dimensions and connections have remained the same. As a result it is exceptionally easy to replace one unit with another with only negligible downtime.

Mastervolt Green by Heart

As part of our constant search for eco-friendly and long-lasting solutions, Mastervolt has developed the Green by Heart programme. Its impact on the Mass battery chargers, Mass Sine inverters and Mac & Magic DC-DC converters include:

- An exceptionally effective use of the consumed input current (cos phi) > 0.98!
- Faster charging of batteries, even when the input current is limited.
- Use of top quality components with a long lifespan.
- Savings in weight and space.
- Fewer installation materials.





For professional use: GMDSS

Professional users will benefit from a front display with GMDSS alarm functions GMDSS stands for Global Maritime Distress and Safety System, an internationally agreed-upon set of safety procedures, types of equipment, and communication protocols that is a requirement for the SOLAS (Safety Of Life At Sea) convention and uses DSC and satellite communication.



Made tough by smart design

The E-mark certified Mass battery chargers are very strong, designed to withstand heavy vibrations and shocks. Their premium quality components meet the highest possible specifications, while the smart and extra robust mounting adds to the professional end result.



MasterBus compatible

The Mass battery charger is fully MasterBus compatible. In combination with the MasterBus Inverter Interface or AC Power Analyser, you can easily connect every Mass Sine inverter within a MasterBus network. For the DC-DC converters you can use the MasterBus Serial Interface. All you need is a single cable with one connection. Your benefits: Fast and easy installation, plus centralised monitoring, configuration and operation of your system with a MasterView panel.

Easy and safe connection

Mass products are equipped with certified industrial connection technology. The larger inverter models have internal connections, the smaller models use a cable and plug & play socket.



Automatic switching

Easy to install within a mains voltage and/or generator power system, the Mass Sine inverter can switch between sources or combine the supply using the Masterswitch or Systemswitch system.

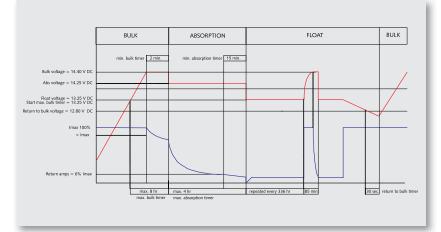




Powerful selling points

Mass battery chargers

- Designed for the most difficult conditions.
- Lightweight, stainless steel, anodised aluminium casing.
- Coating of internal components prevents damage from damp or condensation to ensure a longer lifespan.
- Insensitive to electromagnetic effects from other devices.
- Suitable for every type of battery, also charges entirely empty batteries.
- Delivered as standard with temperature sensor.
- Full power at temperatures of up to 45°C.
- Load capacities from 80 to 1000 Ah or more.
- Stable power supply of 24 and 48 V, even without batteries.
- Load sharing possible in case of limited power supply.
- Parallel switching possible using multiple battery chargers.
- Customised monitoring and controls at any location
- Fast and easy installation with MasterBus, Mastervolt's single cable system.
- Reliable charger/supply for GMDSS.
- Certified by Germanisch Lloyd, Lloyd, Bureau Veritas (24/75 & 24/100 models only) and RRR, RS; connections in accordance with CE, ABYC A-31 and IEC60945.
- Type approval for application in safety zones A, B and C.



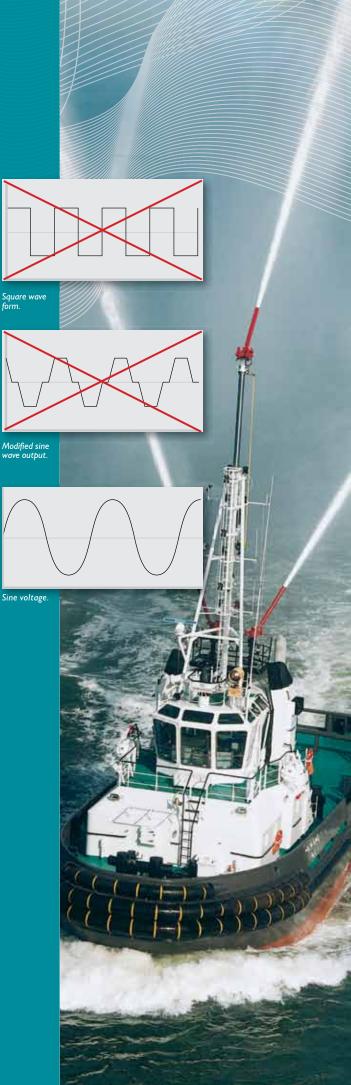
3-Step⊕ charge method for fast and complete loading (IUoUo).

Mass Sine sine wave inverters

- Capacity between 800 W and 5 kW.
- Suitable for high starting/peak loads, even up to 200% at brief consumption .
- 230V/50Hz pure sine wave voltage; no faults or humming sounds from connected equipment, not even with sensitive communication and measuring equipment.
- Fully MasterBus compatible with AC Power Analyser or MasterBus Inverter Interface.
- All Mastervolt inverters provide pure sine wave voltage to ensure seamless operation of the connected equipment. Mastervolt inverters are the best choice available.

Mac & Magic DC-DC converters

- Reliable and very stable DC supply.
- For 12 and 24 V battery systems.
- Parallel switching of multiple units for capacities of 40, 60 or more Amps.
- Battery charger and dimmer function.
- Adjustable output voltage.
- Voltage stabilisation for a longer lifespan of halogen lights, etc.
- Corrosion-proof aluminium casing.
- Shock-proof.
- Temperature-powered fan for cooling.
- Generates limited heat, so installable almost anywhere.
- Fully MasterBus compatible with a MasterBus Serial Interface.



Specifications Mass battery chargers







Masterlink MICC

(product code 70403105)

10



| | Mass | Mass | Mass | Mass |
|--------------------------------------|-------------------|-------------------|--------------------|--------------------|
| | 24/15-2 | 24/25-2 | 24/25-2 DNV | 24/50-2 |
| Product code | 40020156 | 40020256 | 40720266 | 40020506 |
| GENERAL SPECIFICATIONS | | | | |
| Nominal output voltage | 24 V | 24 V | 24 V | 24 V |
| Total charge current | 15 A at 28.5 V | 25 A at 28.5 V | 25 A at 28.5 V | 50 A at 28.5 V |
| Number of battery outlets | 2 | 2 | 2 | 2 |
| Charge current second output | 3 A | 3 A | 3 A | 3 A |
| Recommended battery capacity | 30-150 Ah | 50-250 Ah | 50-250 Ah | 100-500 Ah |
| Nominal input voltage | | 230 V (180 | -265 V) – 50/60 Hz | |
| Supplies your system without battery | yes | yes | yes | yes |
| Display/read-out | LED display | LED display | LED display | LED display |
| Dimensions, hxwxd | 325x220x111 mm | 325x220x111 mm | 365x220x11 mm | 340x261x130 mm |
| | 12.8x8.7x4.4 inch | 12.8x8.7x4.4 inch | 14.4x8.7x4.4 inch | 13.4x10.3x5.1 inch |
| Weight | 3.3 kg / 7.3 lbs | 3.3 kg / 7.3 lbs | 3,5 kg / 7.7 lbs | 4.6 kg / 10.1 lbs |
| Approvals* | | | | |

TECHNICAL SPECIFICATIONS

| Charge characteristic** | IU | oUo, automatic / 3-step+ for | gel/AGM/wet/Lithium Ion | |
|---|-------------------------------|---------------------------------|---------------------------------|---------------------------|
| Charge voltage Bulk (25 °C)*** | 28.5 V (8 hours) | 28.5 V (8 hours) | 28.5 V (8 hours) | 28.5 V (8 hours) |
| Charge voltage Absorption (25 °C)*** | 28.5 V (4 hours) | 28.5 V (4 hours) | 28.5 V (4 hours) | 28.5 V (4 hours) |
| Charge voltage Float - wet (25 °C)*** | 26.5 V | 26.5 V | 26.5 V | 26.5 V |
| Charge voltage Float - gel/AGM (25 °C)*** | 27.6 V | 27.6 V | 27.6 V | 27.6 V |
| Temperature compensation | -60 mV/°C | -60 mV/°C | -60 mV/°C | -60 mV/°C |
| Voltage compensation | | voltage drop compensation | in DC cables up to 3 Volt | |
| DC consumption | < I mA | < I mA | < I mA | < I mA |
| Full load consumption (230 V AC) | 550 W | 880 W | 880 W | 1800 W |
| Cos phi | > 0.95 | > 0.95 | > 0.95 | > 0.95 |
| Temperature range (ambient temp.) | | -25 °C to 80 °C. > 45 °C d | erating power | |
| Cooling | vario fan | vario fan | vario fan | vario fan |
| Sound level | < 48 dBA at 1 mtr | < 48 dBA at 1 mtr | < 48 dBA at 1 mtr | < 48 dBA at 1 mtr |
| Protection degree | IP23 | IP23 | IP23 | IP23 |
| Protections | over | temperature, over load, short | circuit, high battery, low batt | ery — |
| MasterBus compatible | yes | yes | yes | yes |
| CSI/DC alarm (Charger Status Interface) | | — integrated in the battery | charger as standard —— | |
| OPTIONS | | | | |
| MasterView Read-out | Remote panel for reading t | he charge status of your batte | ry charger, including error not | ifications |
| (product code 77010050) | | | | |
| MasterView Easy | Touch screen panel for read | ding charge status, current fol | d-back and/or Power Sharing s | setting |
| (product code 77010305) | | | | |
| MasterShunt | MasterBus integrated batte | ry monitor, with detailed info | mation on the status of your | batteries for a optimised |
| (product code 77020100) | charging process, incl. volta | age, current, remaining time a | nd consumption capacity in pe | ercentage |
| MasterBus USB Interface | Communication port betwe | een MasterBus and the USB p | ort of your PC; makes possibl | e reading and |
| (product code 77030100) | configuration of your Maste | erBus system on the PC when | combined with MasterView S | ystem software. |
| | | | | |

* Check our website for the certificates per model.

MasterVision panels

** The charge characteristic can be set to your requirements.

*** The battery charge current can sometimes be specified at 20 °C, so take temperature compensation into account.

Model C3-RS

(product code 70403040)



Mass



Mass



Mass







Mass

| 24/75 | 24/100 | 24/100-3ph | 48/25 | 48/50 |
|------------------------|------------------------|------------------------|------------------------|------------------------|
| 40020756 | 40021006 | 40031006 | 40040256 | 40040506 |
| | | | | |
| 24 V | 24 V | 24 V | 48 V | 48 V |
| 75 A at 28.5 V | 100 A at 28.5 V | 100 A at 28.5 V | 25 A at 57 V | 50 A at 57 V |
| 1 | 1 | I | I | I |
| n.a. | n.a. | n.a. | n.a. | n.a. |
| I 50-750 Ah | 200-1000 Ah | 200-1000 Ah | 100-500 Ah | 100-500 Ah |
| 230 V (180-265 V) – 5 | 50/60 Hz | 3x400 V (360-485 V) | 230 V (180-250 V) - 50 | /60 Hz |
| yes | yes | yes | yes | yes |
| LED display |
| 420x318x130 mm |
| 16.5x12.5x5.1 inch |
| 7.7 kg / 17 lbs | 7.7 kg / 17 lbs | 7.7 kg / 17 lbs | 4.6 kg / 10.1 lbs | 7.7 kg / 17 lbs |
| CE, E-mark, ABYC A-31, |
| RRR, RS, Lloyds, DNV | RRR, RS, Lloyds, DNV | RRR, RS | RRR, RS | RRR, RS |

| IUoUo, automatic / 3-step+ for gel/AGM/wet/Lithium Ion | | | | |
|--|-------------------|---|-------------------|-------------------|
| 28.5 V (8 hours) | 28.5 V (8 hours) | 28.5 V (8 hours) | 57 V (8 hours) | 57 V (8 hours) |
| 28.5 V (4 hours) | 28.5 V (4 hours) | 28.5 V (4 hours) | 57 V (4 hours) | 57 V (4 hours) |
| 26.5 V | 26.5 V | 26.5 V | 53 V | 53 V |
| 27.6 V | 27.6 V | 27.6 V | 55.2 V | 55.2 V |
| -60 mV/°C | -60 mV/°C | -60 mV/°C | -120 mV/°C | -120 mV/°C |
| voltage drop compensation in DC cables up to 3 Volt | | | | |
| < 1 mA | < I mA | < I mA | < I mA | < I mA |
| 2600 W | 3500 W | 3500 W | 1800 W | 3500 W |
| > 0.95 | > 0.95 | > 0.95 | > 0.95 | > 0.95 |
| | -25 °C | to 80 °C; > 45 °C derating power | | |
| vario fan | vario fan | vario fan | vario fan | vario fan |
| < 48 dBA at 1 mtr | < 48 dBA at 1 mtr | < 48 dBA at 1 mtr | < 48 dBA at 1 mtr | < 48 dBA at 1 mtr |
| IP23 | IP23 | IP23 | IP23 | IP23 |
| | over temperature | e, over load, short circuit, high batte | ery, low battery | |
| yes | yes | yes | yes | yes |
| integrated in the battery charger as standard | | | | |

Remote panel for reading the charge status of your battery charger, including error notifications.

Touch screen panel for reading charge status, current fold-back and/or Power Sharing setting.

MasterBus integrated battery monitor, with detailed information on the status of your batteries for a optimised charging process, incl. voltage, current, remaining time and consumption capacity in percentage.

Communication port between MasterBus and the USB port of your PC; enables reading and configuration of your MasterBus system on the PC when combined with MasterView System software (free to download).

Specifications Mass Sine sine wave inverters

| - | Mass Sine 12/800 | Mass Sine 12/1200 | Mass Sine 12/2000 |
|--|--|--|----------------------------|
| Product code 230 V | 24010800 | 24011200 | 24012000 |
| GENERAL SPECIFICATIONS | | | |
| Nominal battery voltage | 12 V | 12 V | 12 V |
| Recommended battery capacity | >100 Ah | >150 Ah | >200 Ah |
| Output voltage (± 5%) | 230 V – 50 Hz (± 0 .01 Hz) | 230 V – 50 Hz (± 0 .01 Hz) | 230 V – 50 Hz (± 0 .01 Hz) |
| P30 power at 40 °C, cos phi l | 800 W | 1200 W | 2000 W |
| Continuous power at 40 °C, cos phi I | 650 W | 1000 W | 1800 W |
| Peak load | 1600 W | 2400 W | 4000 W |
| Output waveform | true sine | true sine | true sine |
| Efficiency | 92% | 92% | 92% |
| / Display/read-out | LED display | LED display | LED display |
| Dimensions, hxwxd | 325x220x111 mm | 340x261x130 mm | 420x318x136 mm |
| | 12.8x8.7x4.4 inch | 13.4×10.3×5.1 inch | 16.5x12.5x5.4 inch |
| Weight | 3.9 kg / 8.6 lbs | 8 kg / 17.4 lbs | 14.6 kg / 32.2 lbs |
| Approvals | CE. E-mark, ABYC A-31 | CE, E-mark, ABYC A-31 | CE, E-mark, ABYC A-31 |
| TECHNICAL SPECIFICATIONS | | | · · |
| Technology | HF switch mode | HF switch mode | HF switch mode |
| Low battery voltage, switches off at | 10 V, ± 0.5 V | 10 V, ± 0.5 V | 10 V, ± 0.5 V |
| Low battery voltage, switches on at | 11 V, ± 0.5 V | 11 V, ± 0.5 V | I I V, ± 0.5 V |
| High battery voltage, switches off at | 15,5 V, ± 0.5 V | 15,5 V, ± 0.5 V | 15,5 V, ± 0.5 V |
| High battery voltage, switches on at | 14,5 V, ± 0.5 V | 14,5 V, ± 0.5 V | 14,5 V, ± 0.5 V |
| Max. ripple on DC (battery) | 5% RMS | 5% RMS | 5% RMS |
| Input current (nominal load) | 73 A | 110 A | 183 A |
| No load power consumption: | | | |
| • 'on' mode (230 V) | 470 mA – 5.6 W | 450 mA – 5 W | 480 mA – 6 W |
| • stand-by (scan mode) | 65 mA – 0.8 W | 43 mA – 0.5 W | 50 mA – 0.6 W |
| Minimal DC fuse (slow blow)** | 100 A | 150 A | 250 A |
| Minimal cable size | 25 mm ² | 50 mm ² | 70 mm ² |
| Harmonic distortion typical | < 5% | < 5% | < 5% |
| Cos Phi | all power factors allowed | all power factors allowed | all power factors allowed |
| Temperature range (ambient temp.) | -25 °C | to 80 °C; > 40 °C derating power — | · |
| Cooling | natural/forced | natural/forced | natural/forced |
| Sound level | 48 dBA at 1 mtr | 48 dBA at 1 mtr | 48 dBA at 1 mtr |
| Protection degree | IP23 | IP23 | IP23 |
| Protections | over temperature, ov | ver load, short circuit, high battery, low l | pattery |
| MasterBus compatible | yes, using a Master | Bus Inverter Interface or AC Power Ana | lyser |
| AC connection | internal | internal | internal |
| OPTIONS | | | |
| Model C4-RI | Remote control on/off for the Mass S | ine sine wave inverter. | |
| (product code 70404110) | | | |
| Masterlink/MICC | Battery consumption meter for 2 batteries, 12/24 V DC with LCD read-out, | | |
| (product code 70403105) | remote control for Mass Sine inverter and Mass battery charger or Mass Combi. | | |
| MasterBus Inverter Interface | Integrates the Mass Sine inverter in a MasterBus network. | | |
| (product code 77030700) | | | |
| AC Power Analyser (product code 77031200) | Integrates the Mass Sine inverter in a MasterBus network and visualizes the AC voltage, current and power. | | |
| Transfer system | The Masterswitch and Systemswitch | can be connected to all inverters | |
| | e r laster switch and systems witch | | |

* Also available in 60 Hz; product code 1500 W model = 24121500 / product code 2500 W model = 24122500 / product code 5000 W model = 24195100.

 $\ast\ast$ DC fuse depends on the cable size.



Mass Sine 24/800 24020800



Mass Sine 24/1500* 24021500



Mass Sine 24/2500* 24022500



24/5000* 24095100

| | 24 V | 24∨ | 24 V | 24 V | |
|---|--|------------------------------|--|----------------------------|--|
| | >50 Ah | >150 Ah | >200 Ah | >400 Ah | |
| | 230 V – 50 Hz (± 0 .01 Hz) | 230 V – 50 Hz (± 0 .01 Hz) | 230 V – 50 Hz (± 0 .01 Hz) | 230 V – 50 Hz (± 0 .01 Hz) | |
| | 800 W | 1500 W | 2500 W | 5000 W | |
| | 650 W | 1200 W | 2000 W | 4000 W | |
| | 1600 W | 2900 W | 5000 W | 9000 W | |
| | true sine | true sine | true sine | true sine | |
| | 92% | 92% | 92% | 92% | |
| | LED display | LED display | LED display | LED display | |
| | 325x220x111 mm | 340x261x130 mm | 420x318x130 mm | 470x315x254 mm | |
| | 12.8x8.7x4.4 inch | 13.4x10.3x5.1 inch | 16.5x12.5x5.1 inch | 18.5x12.4x10 inch | |
| | 3.9 kg / 8.6 lbs | 8 kg / 17.4 lbs | 14.6 kg / 32.2 lbs | 25 kg / 55.1 lbs | |
| | CE, E-mark, ABYC A-31 | CE, E-mark, ABYC A-31 | CE, E-mark, ABYC A-31 | CE, E-mark, ABYC A-31 | |
| | | | | | |
| | HF switch mode | HF switch mode | HF switch mode | HF switch mode | |
| | 19 V, ± 0.5 V | 19 V, ± 0.5 V | 19 V, ± 0.5 V | 19 V, ± 0.5 V | |
| | 22 V, ± 0.5 V | 22 V, ± 0.5 V | 22 V, ± 0.5 V | 22 V, ± 0.5 V | |
| | 32 V, ± 0.5 V | 32 V, \pm 0.5 V | 33 V, \pm 0.5 V | 32 V, ± 0.5 V | |
| | 30 V, ± 0.5 V | 30 V, \pm 0.5 V | 31 V, ± 0.5 V | 30 V, \pm 0.5 V | |
| | 5% RMS | 5% RMS | 5% RMS | 5% RMS | |
| | 36 A | 68 A | 115 A | 230 A | |
| | | | | | |
| | 240 mA – 5.6 W | 200 mA – 5 W | 250 mA – 6 W | 250 mA – 6 W | |
| | 35 mA – 0.8 W | 25 mA – 0.6 W | 25 mA – 0.6 W | n.a. | |
| | 63 A | 100 A | 160 A | Ix 250 A of 2x 125 A | |
| | 16 mm ² | 25 mm ² | 50 mm ² | 2x 70 mm ² | |
| | < 5% | < 5% | < 5% | < 5% | |
| | all power factors allowed | all power factors allowed | all power factors allowed | all power factors allowed | |
| -25 °C to 80 °C; > 40 °C derating power | | | | | |
| | natural/forced | natural/forced | natural/forced | natural/forced | |
| | 48 dBA at 1 mtr | 48 dBA at 1 mtr | 48 dBA at 1 mtr | 48 dBA at 1 mtr | |
| | IP23 | IP23 | IP23 | IP23 | |
| | | over temperature, over load, | short circuit, high battery, low battery | | |
| | yes, using a MasterBus Inverter Interface or AC Power Analyser | | | | |
| | internal | internal | internal | internal | |
| | | | | | |

Remote control on/off for the Mass Sine sine wave inverter.

Battery consumption meter for 2 batteries, 12/24 V DC with LCD read-out, remote control for Mass Sine inverter and Mass battery charger or Mass Combi.

Integrates the Mass Sine inverter in a MasterBus network.

Integrates the Mass Sine inverter in a MasterBus network and visualizes the AC voltage, current and power.

The Masterswitch and Systemswitch can be connected to all inverters.

The following models are also available with a WAGO 770-113 connector and 25 cm cable, 230V/50Hz:

• Mass Sine 12/1200

• Mass Sine 12/2000

• Mass Sine 24/2500

Specifications Mac & Magic converters





Magic 24/12-20



Magic 24/24-20 81300200

| | Mac 24/12-20 | Magic 24/12-20 | Magic 24/24-20 |
|---|--|---|-----------------------------|
| Product code | 81200100 | 81300100 | 81300200 |
| SPECIFICATIONS INPUT | | | |
| Nominal input voltage | 24 V | 24 V | 24 V |
| Input range | 20-32 V DC | 19-32 V DC | 19-32 V DC |
| Input range, 3-step charge mode | | 24-32 V DC | |
| Lower input set point | | 20 V DC* | |
| Delay lower input set point | | 30 sec.* | |
| SPECIFICATIONS OUTPUT | | | |
| Factory setting | 13.6 V DC* | 13.6 V DC* | 27.2 V DC* |
| Voltage adjustable* | 10-15 V DC | 10-15 V DC | 20-28.5 V DC |
| Output voltage dimmer* | 4-13 V DC | 4-13 V DC | 8-26 V DC |
| Stabilised | 2% at extremes | of temperatures, load and input | |
| Ripple | max. 1% peak peak | max. 1% peak peak | max. 1% peak peak |
| Power (max./nominal) | 300 / 270 W | 300 / 300 W | 580 / 580 W |
| Max. current | 20 A | 20 A | 20 A |
| Charge current - 3-step mode | 16 A | 16 A | 16 A |
| GENERAL SPECIFICATIONS | | | |
| Galvanic isolation | no | yes | yes |
| Voltage limited | yes | yes | yes |
| Efficiency | | nput voltage, full load); 92% peak | |
| Protected against over load | yes | yes | yes |
| Protected against over temperature | yes | yes | yes |
| Dimmer function | — yes, by external momentary switch | via fast-on connection, to be activated by DI | P-switch setting — |
| Alarm contact | no | yes (fast-on connector) | yes (fast-on connector) |
| Dimensions, hxwxd | 190x130x61 mm | 227x154x81 mm | 227x154x81 mm |
| | 7.5x5.1x2.4 inch | 8.9x6.1x3.2 inch | 8.9x6.1x3.2 inch |
| Weight | 1.0 kg / 2.2 lbs | 1.8 kg / 4 lbs | 1.8 kg / 4 lbs |
| Approvals | CE | CE | CE |
| TECHNICAL SPECIFICATIONS | | | |
| 3-Step charge option | yes | (DIP switch settings) | |
| DC consumption | <30 mA | <115 mA | <115 mA |
| Connections input/output | screw termina | ls, maximum wire size 16 mm2 / AWG5 | |
| Temperature range (ambient temp.) | -25 °C to 8 | 30 °C, > 40 °C derating power | |
| Cooling | natural cooling | maintenance free vario fans | maintenance free vario fans |
| Sound level | < 30 dBA at 1 mtr | < 48 dBA at 1 mtr | < 48 dBA at 1 mtr |
| Protection degree | IP21 | IP21 | IP21 |
| MasterBus compatible | yes, by means of M | asterBus Serial Interface (product code 7703 | 80450) ——— |
| OPTIES | | | |
| PC-Link | Interface between Magic converter and PC | C, in combination with the MasterAdjust soft | ware (free to download) |
| (product code 21730100) | The PC-Link can be directly connected to | a computer serial port. | |
| MasterView Easy (product code 77010305) | Touch screen panel for reading status and dimmer function settings | | |
| MasterBus Serial Interface (product code 77030450) | Integrates the Mac & Magic converters in a | a MasterBus network | |

* Adjustable with MasterAdjust software.





Magic 12/12-20 81300400 Magic 12/24-10 81300300

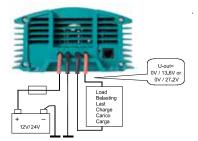
| 12 V | | 12 V |
|------|------------|------|
| | 11-16 V DC | |
| | 12-16 V DC | |
| | 10 V DC* | |
| | 30 sec.* | |
| | | |

| 13.6 V DC* | 27.2 V DC* |
|------------------------------|------------------------|
| 10-15 V DC | 20-28.5 V DC |
| 4-13 V DC | 8-26 V DC |
| — 2% at extremes of temperat | ures, load and input 🦳 |
| max. 1% peak peak | max. 1% peak peak |
| 300 / 300 W | 300 / 300 W |
| 20 A | 10 A |
| 16 A | 8 A |

| yes | yes | | |
|---|-----------------------------------|--|--|
| yes | yes | | |
| >90% (at nom. input voltage, full load); 92% peak | | | |
| yes | yes | | |
| yes | yes | | |
| yes, by external momentary switch via fast-on connection, | | | |
| to be activated by DIP-switch settin | lg | | |
| yes (fast-on connector) | yes (fast-on connector) | | |
| , · · · / | yes (last-off confilector) | | |
| 227x154x81 mm | 227x154x81 mm | | |
| 227x154x81 mm 8.9x6.1x3.2 inch | | | |
| | 227x154x81 mm | | |
| 8.9x6.1x3.2 inch | 227x154x81 mm 8.9x6.1x3.2 inch | | |

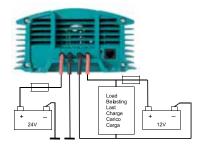
| yes (DIP switch | settings) | |
|---|-----------------------------|--|
| <115 mA | <115 mA | |
| screw terminals, maximum wire size 16 mm2 / AWG5 | | |
| -25 °C to 80 °C, > 40 °C derating power | | |
| maintenance free vario fans | maintenance free vario fans | |
| < 48 dBA at 1 mtr | < 48 dBA at 1 mtr | |
| IP21 | IP21 | |
| yes, by means of MasterBus Serial Interface (product code 77030450) | | |





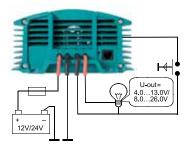
Magic as power supply

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.



Mac & Magic as battery charger

12 V starter or emergency power batteries can be charged and monitored by a Mac or Magic converter. The charging method is identical to Mastervolt's Mass products (3-step technology), and voltage levels are adjustable using the MasterBus PC-Link/MasterAdjust software.

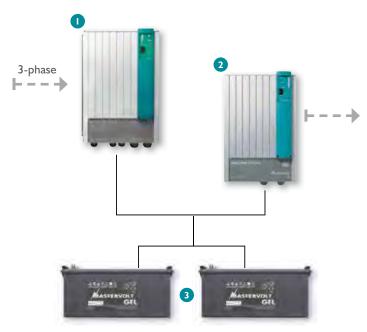


Mac or Magic as dimmer

Lights can be dimmed by means of a push button or pulse switch, with a maximum load of 250 Watt for the Mac. A second Mac can be installed when using multiple lamps.

Mastervolt products in a professional system

- Ideal as back-up system.
- 230 Volt without generator.
- Certified products for professional use in the most extreme conditions.



- lighting
- vacuum cleaner
- coffee maker
- refrigerator
- phone charger
- laptop charger
- measuring equipment

Mass 24/100-3ph battery charger.

VIOS

- 2 Mass Sine 24/2500 sine wave inverter.
- 3 MVG 12/200 service battery.