

# PowerCharger 12/20-3



Product code: 44210200

# Powering the comforts of home anywhere, any time

Only available in the USA.

Charging up to three batteries simultaneously

Easy to install

User-friendly operation

## PowerCharger battery chargers

Your introduction to the quality of Mastervolt, the high performance marine PowerChargers offer you many features in a lightweight, compact design. PowerCharger battery chargers feature high frequency switch mode technology, which makes them extremely efficient and lightweight. Designed for worldwide marine applications (90-265 V AC, 50/60 Hz), they are also power factor corrected (> 0.98).

PowerChargers may be used with lead acid, gel, AGM or spiral batteries and will charge up to 3 battery banks simultaneously. Their built-in memory functions prevent overcharging.

PowerChargers include an auxiliary power supply to provide DC voltage even if the batteries are not connected and can revive a 'dead battery'. They supply optimal charging in a wide variety of ambient temperatures and feature variable speed fans. Offering full charging current even with low quality power, they offer no reduction of charging power if input power is low.

Designed specifically for the marine environment with corrosion-resistant materials, the PowerChargers feature easy-to-read displays and captive screws for ease of installation and operation. All PowerChargers meet global standards including FCC class B, over temperature, ignition protection, UL, ABYC requirements and are CE certified.

The PowerCharger series is not compatible with Mastervolt's MasterBus network CANbus system. If you'd like to expand to this system, please use the ChargeMaster series in your application.

# Specifications

## General specifications

|                              |  |
|------------------------------|--|
| Nominal output voltage       | 12 V   |
| Total charge current         | 20 A   |
| Number of battery outlets    | 3  |
| Charge current second output | 20 A   |
| Charge current third output  | 20 A   |
| Battery bank size            | 50-250 Ah  |
| Nominal input voltage        | 120/230 V (50/60 Hz)   |
| AC connection                | 6.5 ft AC cable  |
| Power supply mode            | yes  |
| Display/read-out             | LED display  |
| Fastening                    | screw  |
| Dimensions, hxxwx            | 234 x 132 x 60 mm<br>9.2 x 5.2 x 2.4 inch  |
| Weight                       | 1.8 kg<br>4.0 lb   |
| Compliance                   | CE, E-mark (95/54/EG), SAE J1171 (ISO8846 ignition protected), ABYC A-31, UL (incl. marine supplement FCC class B) |

## Technical specifications

|  |  |
|--|--|
| Charge characteristic                    | IUoUo, automatic / 3-step+ for gel/AGM/wet/Lithium Ion               |
| Charge voltage Bulk                      | 14.4 V   |
| Charge voltage Absorption                | 14.25 V  |
| Absorption time                          | 4 hours  |
| Charge voltage Float (wet batteries)     | 13.25 V  |
| Charge voltage Float (Gel/AGM batteries) | 13.8 V   |
| Temperature compensation                 | -22 mV/ °C<br>-12 mV/ °F   |
| DC voltage compensation                  | automatic  |
| Power consumption (DC side)              | < 2 mA   |
| Full load consumption (230 V AC)         | 420 W  |
| Current Control function                 | no   |
| Power factor control                     | > 0.98   |
| Temperature range (ambient temp.)        | -25 °C to +65 °C<br>-13 to 149 °F                                    |
| Cooling                                  | natural cooling  |
| Protection degree                        | IP23   |
| Protections                              | over temperature, over load, short circuit, high/low battery voltage |
| MasterBus compatible                     | no   |
| Charger Status Interface (alarm contact) | yes, using a Multipurpose Contact Output (code 77030500)             |