

# ChargeMaster 24/12-3



Product code: 44020120



- 3-Step+ charging technology for fast and complete charging.
- Safe and complete charging due to standard safety features.
- Memory function prevents overcharging in case of an unstable power supply.
- Clear control panel.
- Easy to install.
- Built-in system functionality (MasterBus) in combination with other Mastervolt products (not available on ChargeMaster 24/6).

### **Power you can rely on**

Make the most of your batteries with the ChargeMaster, plugging in and charging anywhere in the world. Mastervolt's ChargeMaster guarantees fast and complete charging of your batteries no matter where you are. The ChargeMaster can charge multiple battery banks simultaneously thanks to its combined functionality. Moreover, all ChargeMasters can be easily connected to a MasterBus network with only one cable and one connection (not available on ChargeMaster 24/6). You also have the option of central, local or remote monitoring, configuration and control of your system. The ChargeMaster is available in various models to guarantee you the ideal battery charger for any situation and demand.

### **Charging your batteries with every voltage**

The Mastervolt ChargeMaster supplies a maximum capacity wherever you are via auto-ranging. Auto-ranging ensures perfect fully automatic operation anywhere in the world, regardless of the available mains voltage (90-265 V AC, 50 or 60 Hz). The 3-step+ charging technology guarantees fast and complete charging, while the cos phi 1 regulation gets the most out of limited generator capacity.

### **Sturdy connections**

Metal-on-metal fitting gives a firm connection, and prevents corrosion or overheating of contact surfaces.

### **Charging multiple battery banks**

The ChargeMaster series has three equal charge outputs. Those of the smaller ChargeMaster models are pre-installed with two metres of cable for a plug & play solution, while the heavier models have one full output (for example for your service battery) and two outputs of 10 A, ideal for your starter batteries.

# Specifications

## General specifications

Nominal output voltage	24 V
Total charge current	12 A
Number of battery outlets	3
Charge current second output	12 A
Charge current third output	12 A
Battery capacity range	24-120 Ah
Nominal input voltage	120/230 V (90-265 V), 50/60 Hz
AC connection	2 mtr AC cable
Power supply mode	yes
Display/read-out	LED display
Fastening	4x screw
Dimensions, hxxwx	234 x 132 x 60 mm 9.2 x 5.2 x 2.4 inch
Weight	1.8 kg 4.0 lb
Approvals	CE, ABYC A-31, SAE J1171/ISO8846 ignition protected

## Technical specifications

Charge characteristic	IUoUo, automatic / 3-step+ for gel/AGM/wet/Lithium Ion
Charge voltage Bulk	28.8 V
Charge voltage Absorption	28.5 V
Absorption time	4 hours
Charge voltage Float (wet batteries)	26.5 V
Charge voltage Float (gel/AGM batteries)	27.6 V
Temperature compensation	-60 mV/ °C -33 mV/ °F
Voltage compensation	automatic
Power consumption (DC side)	< 2 mA
Full load consumption (230 V AC)	435 W
Current Control function	no
Power factor control	>= 0.98
Temperature range (ambient temp.)	-25 °C to 60 °C, derating > 25 °C -13 to 140 °F
Sound level	< 52 dBA at 1 mtr
Protection degree	IP23
Protections	over temperature, over load, short circuit, high/low battery voltage
Cooling	vario fan
MasterBus compatible	yes