

## ChargeMaster 24/100-3



PN 44021000

- Outstanding performance even at extreme temperatures (-25°C to +60°C)
- Autoranging: 120 or 230 V and 50 or 60 Hz
- 3 outputs for connecting 3 separate batteries
- Three-step(+) charging system
- For use with gel, AGM or wet batteries
- Power factor correction as standard, increasing efficiency
- Operates with any generator output quality
- Light and small model
- Safely separated connection compartment
- Cover with captive screws
- Quick and easy installation, wall or floor mounting
- Bright LCD display with accurate read-out of all three banks
- Remote connection: MasterBus compatible
- Battery temperature sensor as standard

### Description

The ChargeMaster from Mastervolt is a battery charger with three outputs to assure that all your batteries are always charged safe, quick and complete, whether you are at home, on the road or at sea with low shore power or limited supply.

Mastervolt's three-step charging method guarantees optimum efficiency, meaning your batteries will perform better and last much longer. Besides the fast and complete charging of three batteries up to 1000Ah (24V) (recommended), this autoranging (120 & 230V) battery charger also functions as a supply unit when the input voltage is low, automatically making up the full capacity in the 24V circuit. Its direct current outlet is so clean that the battery charger itself can be used as direct power source, even without a battery.

The high-frequency switch-mode technology, in which advanced microprocessors combine a myriad of functions, causes an extremely accurate charge characteristic. Furthermore, this ChargeMaster battery charger has a unique memory function which prevents the charger starting a new three-stage charge cycle if the supply voltage is interrupted. The model is equipped with a clear multifunctional display with backlight and three easy push buttons. By a selection button you can easily see the Charge current, charge voltage and charge cycle of three battery sets. Also the charger is equipped with a digital bus communication called MasterBus to enable extensive remote monitoring and control options for even more convenience. All in all it gives you the power to be independent!

## Specifications

### GENERAL SPECIFICATIONS

Nominal input frequency 50-60 Hz (autoranging, 45-65 Hz)

Nominal output voltage 24 V

Total charge current 100 A @ 28.8 V

Number of battery outlets 3

Charge current second output 10 A ( $\pm 1$  A)

Charge current third output 10 A ( $\pm 1$  A)

Charge characteristic IUoUo, automatic 3-step(+)

Charge voltage Bulk (25 °C) 28.8 V

Charge voltage Absorption (25 °C) 28.5 V

Charge voltage Float (25 °C) 26.5 V

Maximal Absorption time 8 hours

Maximal Bulk time (start timer @ 26.5 V) 8 hours

Minimal Absorption time 15 minutes

Dimensions (hwxwd) 432x277x150 mm

Weight 8.75 kg

Battery capacity (recommendation) 200-1000 Ah

## TECHNICAL SPECIFICATIONS

Power factor regulation (cos phi)	≥ 0.98
Full load consumption (230 V AC)	3300 VA
Temperature compensation	battery temperature sensor and cable included
Voltage compensation	automatic
DC consumption with connected battery	< 10 mA
Display	charge current/voltage and charge status indication
Temperature range	-25 °C to +60 °C
Cooling	vario fan and natural cooling to ensure optimized cooling when unit stored in corners etc.
Sound level	< 52 dBA @ 1 m
Protection degree	IP23
Approvals	fully CE and E-marking according to automotive directive 95/54/EG / UL

## OPTIONS

### (all MasterBus products)

Nominal input voltage	120/230 V (autoranging, 90-265 V)
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## Accessories



MasterBus (10 meter)  
plug&play



MasterBus (25 meter)  
plug&play



MasterBus-USB Interface



MasterView Classic



MasterBus terminator



MasterBus (15 meter)  
plug&play



MasterView Easy