



CHARGE MASTER SERIES

Automatic battery chargers for recreational & semi-professional use - 12 & 24 V, from 40-100 amps

Mastervolt is the leading manufacturer of state-of-the-art power electronic products for marine, mobile and solar applications. We are pleased to announce a new generation of automatic battery chargers, the ChargeMaster series. Scheduled to become available in October 2007, this range will complete Mastervolt's product offering to the marine and mobile recreational and semi-professional markets.

Multi purpose functionality

The new ChargeMaster range combines the effective Mastervolt battery charging technology with smart installation features. The new range can easily be stowed away in corners, below benches or inside cabinets. With the new enclosure the charger can also stand free; cables can enter and leave via left and right side or via the back. To ensure fast system installation the charger has three outputs, all outputs are monitored.

One of the key features is the auto ranging input facility: the ChargeMaster will operate both on 230 V/50 Hz as well as on 120 V/60 Hz, without any current reduction. The ChargeMaster will automatically switch to the available AC power.

Advanced LCD display

More and more systems demand information about status and correct operation of the charger and/or system. To satisfy this need of information the ChargeMaster is equipped with a display to reflect information about charge status, DC and AC information. With the MasterBus connected, it is also possible to display the battery status. Minor adjustments to the charge characteristic can be made via the display, for larger adjustments we recommend to use the MasterAdjust program.

Safe operation

To protect your installation and connected equipment, the ChargeMaster is fully protected against all kind of fault conditions.



To protect your battery the unit switches off when the output voltage becomes too low or too high. On the AC side the unit is protected against over load, short circuit, in-rush current and over temperature.

Remote control

The ChargeMaster is the first Mastervolt battery charger which incorporates the powerful MasterBus CAN-based communication standard. With MasterBus it is possible to integrate the charger in a Mastervolt system (MasterShunt) but also the new line of MasterView remote panels can be connected to the charger. Due to the easy installation of the MasterBus based products, even the installation of the MasterView remotes will make the installation fast and easy.

Approvals & compliance

The ChargeMaster is build according to the latest standard applicable to battery chargers and therefore the units comply to the CE/ABYC regulations, including E-marking for mobile use. All units will be UL compliant.

- 3-STEP⁺ CHARGE CHARACTERISTIC
- MEMORY FUNCTION AND BATTERY SAVING TECHNOLOGY
- SUITABLE FOR ALL KINDS OF LEAD ACID BATTERIES
- THREE MONITORED OUTPUTS
- EASY ACCESSIBLE DISPLAY FOR MONITORING AND MINOR ADJUSTMENTS
- AUTO RANGING (WIDE INPUT WINDOW 90-265 V)
- EASY AND FAST (ECONOMIC) INSTALLATION
- MASTERBUS COMPATIBLE (SYSTEM INTEGRATION)
- AUTOMATIC VOLTAGE COMPENSATION
- BATTERY TEMPERATURE SENSOR WITH 6 M CABLE AS STANDARD

TECHNICAL SPECIFICATIONS



ChargeMaster
12/70-3



ChargeMaster
12/100-3



ChargeMaster
24/40-3



ChargeMaster
24/60-3



ChargeMaster
24/80-3



ChargeMaster
24/100-3

Article no.	44010700	44011000	44020400	44020600	44020800	44021000
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
GENERAL SPECIFICATIONS

Nominal input voltage	120/230 V (90-265 V)					
Nominal input frequency	50/60 Hz (45-65 Hz)					
Nominal output voltage	12 V	12 V	24 V	24 V	24 V	24 V
Total charge current	70 A @ 14.4 V	100 A @ 14.4 V	40 A @ 28.8 V	60 A @ 28.8 V	80 A @ 28.8 V	100 A @ 28.8 V
Number of battery outlets	3	3	3	3	3	3
Current second output	10 A	10 A	10 A	10 A	10 A	10 A
Current third output	10 A	10 A	10 A	10 A	10 A	10 A
Charge characteristic	IUoU, automatic / 3-step [Ⓢ]					
Charge voltage Bulk	14.40 V	14.40 V	28.8 V	28.8 V	28.8 V	28.8 V
Charge voltage Absorption	14.25 V	14.25 V	28.5 V	28.5 V	28.5 V	28.5 V
Charge voltage Float	13.25 V	13.25 V	26.5 V	26.5 V	26.5 V	26.5 V
Max. absorption & max. bulk time	8 hours (start max. bulk timer @ 13.25 / 26.5 V)					
Min. absorption time	15 min.	15 min.	15 min.	15 min.	15 min.	15 min.
Battery type settings	open lead / gel / traction / AGM / spiral					
Dimensions, hxxwxd in mm	360x277x150	360x277x150	360x277x150	360x277x150	430x277x150	430x277x150
Weight	6.7 kg	6.7 kg	6.7 kg	6.7 kg	8.8 kg	8.8 kg
Recommended battery capacity	140-700 Ah	200-1000 Ah	80-400 Ah	120-600 Ah	160-800 Ah	200-1000 Ah

TECHNICAL SPECIFICATIONS

Power factor regulations	≥ 0.98	≥ 0.98	≥ 0.98	≥ 0.98	≥ 0.98	≥ 0.98
Full load consumption (230V AC)	1200 VA	1700 VA	1400 VA	2000 VA	2700 VA	3375 VA
Temperature compensation	battery temperature sensor with 6 m cable delivered as a standard					
Voltage compensation	yes, by means of automatic compensation					
DC consumption	< 10 mA	< 10 mA	< 5 mA	< 5 mA	< 5 mA	< 5 mA
Display	unit has a display for charge current/voltage and charge status indication, monitoring upto 3 battery sets					
Temperature range	-25 °C to +60 °C	-25 °C to +60 °C	-25 °C to +60 °C	-25 °C to +60 °C	-25 °C to +60 °C	-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	< 52 dBA @ 1 m	< 52 dBA @ 1 m	< 52 dBA @ 1 m	< 52 dBA @ 1 m	< 52 dBA @ 1 m
Protection degree	IP23	IP23	IP23	IP23	IP23	IP23
Approvals	fully CE and E-marking according to automotive directive 95/54/EG / UL					

OPTIONS

MasterBus connectivity	smart system integration via MasterBus (CAN) / Ethernet					
MasterShunt (art.no. 77020100)	MasterBus compatible shunt, including Ah counting and control of charger to ensure optimized charging					
MasterView Classic (art.no. 77010100)		MasterVision compatible display to control and monitor all MasterBus products				
MasterView Easy (art.no. 77010300)		touch screen to control and monitor all MasterBus products				
MasterView System (art.no. 77010400)		color touch screen to control and monitor your complete Mastervolt system				

Specifications are subject to change without notice.

See our web page www.mastervolt.com for a complete overview of all Mastervolt battery chargers and products.