

# Specifications ChargeMaster battery chargers



	<b>ChargeMaster 12/10</b>	<b>ChargeMaster 12/15-2</b>	<b>ChargeMaster 12/25-3</b>	<b>ChargeMaster 12/35-3</b>
<b>Product code</b>	43011000	43011500	44010250	44010350
<b>GENERAL SPECS</b>				
<b>Nominal output voltage</b>	12 V	12 V	12 V	12 V
<b>Total charge current</b>	10 A at 14.25 V	15 A at 14.25 V	25 A at 13.25 V	35 A at 14.4 V
<b>Number of battery outlets</b>	1	2	3	3
<b>Charge current second output</b>	n.a.	15 A	25 A	35 A
<b>Charge current third output</b>	n.a.	n.a.	25 A	35 A
<b>Recommended battery capacity</b>	25-100 Ah	30-150 Ah	50-250 Ah	70-350 Ah
<b>Nominal input voltage</b>	230 V (180-265 V) - 50/60 Hz	230 V (180-265 V) - 50/60 Hz	120/230 V (90-265 V) - 50/60 Hz	120/230 V (90-265 V) - 50/60 Hz
<b>AC connection</b>	cable + plug	cable + plug	2 mtr AC cable	connector strips
<b>Supplies your system without battery</b>	no	no	yes	yes
<b>Display/read-out</b>	1 LED	1 LED	LED display	LED display
<b>Dimensions, hwxwd</b>	180 x 121 x 50 mm 7.1 x 4.8 x 2 inch	206 x 121 x 50 mm 8.1 x 4.8 x 2 inch	234 x 132 x 60 mm 9.2 x 5.2 x 2.4 inch	291 x 210 x 131 mm 11.5 x 8.3 x 5.2 inch
<b>Weight</b>	1 kg / 2.2 lb	1 kg / 2.2 lb	1.8 kg / 4 lb	4 kg / 9 lb
<b>Fastening</b>	4x screw	4x screw	4x screw	with supplied mounting bracket or 4x screw for wall mounting or 4x screw for floor installation
<b>Approvals</b>	CE, ABYC A-31	CE, ABYC A-31	CE, ABYC A-31, SAE J1171/ ISO 8846 ignition protected	CE, ABYC A-31, SAE J1171/ ISO 8846 ignition protected
<b>TECHNICAL SPECS</b>				
<b>Charge characteristic*</b>	IUoUo, automatic / 3-step+ for gel/AGM/wet/Lithium Ion	IUoUo, automatic / 3-step+ for gel/AGM/wet/Lithium Ion	IUoUo, automatic / 3-step+ for gel/AGM/wet/Lithium Ion	IUoUo, automatic / 3-step+ for gel/AGM/wet/Lithium Ion
<b>Charge voltage Bulk (25 °C)**</b>	14.25 V (6 hours)	14.25 V (6 hours)	14.4 V (8 hours)	14.4 V (8 hours)
<b>Charge voltage Absorption (25 °C)**</b>	14.25 V (6 hours)	14.25 V (6 hours)	14.25 V (4 hours)	14.25 V (4 hours)
<b>Charge voltage Float - wet (25 °C)**</b>	13.25 V	13.25 V	13.25 V	13.25 V
<b>Charge voltage Float - gel/AGM (25 °C)**</b>	13.8 V	13.8 V	13.8 V	13.8 V
<b>Temperature compensation</b>	no	no	-30 mV/°C	-30 mV/°C
<b>Voltage compensation</b>	automatic	automatic	automatic	automatic
<b>DC consumption</b>	< 1 mA	< 1 mA	< 2 mA	< 5 mA
<b>Full load consumption (230 V AC)</b>	170 W	250 W	450 W	575 W
<b>Current Control function</b>	no	no	no	yes, via MasterBus
<b>Cos phi</b>	> 0.95	> 0.95	≥ 0.98	≥ 0.98
<b>Temperature range (ambient temp.)</b>	-25 °C to 60 °C, > 40 °C derating power	-25 °C to 60 °C, > 40 °C derating power	-25 °C to 60 °C, > 40 °C derating power	-25 °C to 60 °C, > 40 °C derating power
<b>Cooling</b>	natural cooling	vario fan	vario fan	vario fan
<b>Sound level</b>	< 30 dBA at 1 mtr	< 52 dBA at 1 mtr	< 52 dBA at 1 mtr	< 52 dBA at 1 mtr
<b>Protection degree</b>	IP65	IP21	IP23	IP23
<b>Protections</b>	over temperature, over load, short circuit, high battery, low battery	over temperature, over load, short circuit, high battery, low battery	over temperature, over load, short circuit, high battery, low battery	over temperature, over load, short circuit, high battery, low battery
<b>MasterBus compatible</b>	no	no	yes	yes
<b>CSI/DC alarm</b> <i>Alarm on all errors or on DC errors only</i>	no	no	yes, using a Multipurpose Contact Output (product code 77030500)	yes, using a Multipurpose Contact Output (product code 77030500)

OPTIONS				
	MasterView Read-out 77010050	n.a.	n.a.	option
		<i>Remote panel for reading the charge status of your battery charger, including error notifications.</i>		
	MasterView Easy 77010305	n.a.	n.a.	option
		<i>Touch screen panel for reading charge status, current fold-back and/or Power Sharing setting.</i>		
	MasterShunt 77020100	option	option	option
		<i>MasterBus integrated battery monitor, with detailed information on the status of your batteries for an optimised charging process, incl. voltage, current, remaining time and consumption capacity in percentage.</i>		
	DC Distribution 77020200	n.a.	n.a.	option
		<i>Smallest distribution model available. It connects up to four DC devices to the DC groups, such as a battery charger, inverter, alternators and solar panels. With the included plug &amp; play cable it can be easily connected to the MasterBus network.</i>		
	MasterBus USB Interface 77030100	n.a.	n.a.	option
		<i>Communication port between MasterBus and the USB port of your PC; makes possible reading and configuration of your MasterBus system on the PC when combined with MasterAdjust software (free to download).</i>		
	Multipurpose Contact Output 77030500	n.a.	n.a.	option
		<i>MasterBus controllable potential-free contact, with alarm notification on the onboard system (low voltage or no AC), replacement of the CSI alarm contact.</i>		



**ChargeMaster  
12/50-3**

44010500

**ChargeMaster  
12/70-3**

44010700

**ChargeMaster  
12/100-3**

44011000

12 V	12 V	12 V
50 A at 14.4 V	70 A at 14.4 V	100 A at 14.4 V
3	3	3
50 A	10 A	10 A
50 A	10 A	10 A
100-500 Ah	140-700 Ah	200-1000 Ah
120/230 V (90-265 V) - 50/60 Hz	120/230 V (90-265 V) - 50/60 Hz	120/230 V (90-265 V) - 50/60 Hz
connector strips	connector strips	connector strips
yes	yes	yes
LED display	LCD display	LCD display
291 x 210 x 131 mm 11.5 x 8.3 x 5.2 inch	362 x 277 x 150 mm 14.3 x 11 x 5.9 inch	362 x 277 x 150 mm 14.3 x 11 x 5.9 inch
4 kg / 9 lb	7 kg / 16 lb	7 kg / 16 lb
with supplied mounting bracket or 4x screw for wall mounting or 4x screw for floor installation	with supplied mounting bracket or 4x screw for wall mounting or 4x screw for floor installation	with supplied mounting bracket or 4x screw for wall mounting or 4x screw for floor installation
CE, ABYC A-31, SAE J1171/ ISO 8846 ignition protected	CE, ABYC A-31, SAE J1171/ ISO 8846 ignition protected	CE, ABYC A-31, SAE J1171/ ISO 8846 ignition protected
IUoUo, automatic / 3-step+ for gel/AGM/wet/Lithium Ion	IUoUo, automatic / 3-step+ for gel/AGM/wet/Lithium Ion	IUoUo, automatic / 3-step+ for gel/AGM/wet/Lithium Ion
14.4 V (8 hours)	14.4 V (8 hours)	14.4 V (8 hours)
14.25 V (4 hours)	14.25 V (4 hours)	14.25 V (4 hours)
13.25 V	13.25 V	13.25 V
13.8 V	13.8 V	13.8 V
-30 mV/°C	-30 mV/°C	-30 mV/°C
automatic	automatic	automatic
< 5 mA	< 5 mA	< 5 mA
825 W	1200 W	1700 W
yes, via MasterBus	yes, via MasterBus	yes, via MasterBus
≥ 0.98	≥ 0.98	≥ 0.98
-25 °C to 60 °C, > 40 °C derating power	-25 °C to 60 °C, > 40 °C derating power	-25 °C to 60 °C, > 40 °C derating power
vario fan	vario fan	vario fan
< 52 dBA at 1 mtr	< 52 dBA at 1 mtr	< 52 dBA at 1 mtr
IP23	IP23	IP23
over temperature, over load, short circuit, high battery, low battery	over temperature, over load, short circuit, high battery, low battery	over temperature, over load, short circuit, high battery, low battery
yes	yes	yes
yes, using a Multipurpose Contact Output (product code 77030500)	yes, using a Multipurpose Contact Output (product code 77030500)	yes, using a Multipurpose Contact Output (product code 77030500)

option	option	option
option	option	option
option	option	option
option	option	option
option	option	option
option	option	option



**In addition to the Mastervolt battery  
chargers, we also supply the  
Marinco Charge Pro™ series.**

We would like to refer to our global product  
catalog where we offer the most extended  
product portfolio globally under the  
Marinco brand.

[www.marinco.com](http://www.marinco.com)



**The following models are also available  
in OEM version with a WAGO 770-113  
connector and 25 cm cable:**

- ChargeMaster 12/25-3
- ChargeMaster 12/35-3
- ChargeMaster 12/70-3
- ChargeMaster 12/100-3

\* The charge characteristic can be set to  
your requirements.  
\*\* The battery charge voltage can sometimes  
be specified at 20 °C, so take temperature  
compensation into account.