

ChargeMaster battery chargers - 24 V



ChargeMaster
24/12-3



ChargeMaster
24/20-3



ChargeMaster
24/30-3

Article no.

44020120

44020200

44020300






GENERAL SPECIFICATIONS

Nominal output voltage	24 V	24 V	24 V
Total charge current	12 A at 26.5 V	20 A at 28.8 V	30 A at 28.8 V
Number of battery outlets	3	3	3
Charge current second output	12 A	20 A	30 A
Charge current third output	12 A	20 A	30 A
Recommended battery capacity	24-120 Ah	40-200 Ah	60-300 Ah
Nominal input voltage	120/230 V (90-265 V) – 50/60 Hz		
AC connection	6.5 ft / 2 mtr AC cable	connector strips	connector strips
Supplies your system without battery	yes	yes	yes
Display/read-out	LED display		
Dimensions, hxxwxd	234x132x60 mm	291x210x131	
	9,2x5,2x2,4 inch	11,5x8,3x5,2 inch	
Weight	1,8 kg / 4 lbs	4 kg / 9 lbs	
Fastening	4x screw	with supplied mounting bracket or 4x screw for wall mounting or floor installation	
Approvals	UL including marine supplement FCC Class B, CE,E-mark,		

TECHNICAL SPECIFICATIONS

Charge characteristic*	IUoUo, automatic / 3-stage [Ⓞ] for gel/AGM/lead acid/Lithium Ion		
Charge voltage Bulk (25 °C)**	28.8 V (8 hours)	28.8 V (8 hours)	28.8 V (8 hours)
Charge voltage Absorption (25 °C)**	28.5 V (4 hours)	28.5 V (4 hours)	28.5 V (4 hours)
Charge voltage Float - wet (25 °C)**	26.5 V	26.5 V	26.5 V
Charge voltage Float - gel/AGM (25 °C)**	27.6 V	27.6 V	27.6 V
Temperature compensation	-76 mV/°F	-76 mV/°F	-76 mV/°F
Voltage compensation	automatic		
DC consumption	< 2 mA	< 2.5 mA	< 2.5 mA
Full load consumption (230 V AC)	435 W	660 W	925 W
Current Control function	yes, through MasterBus	yes, through MasterBus	yes, through MasterBus
Cos phi	≥ 0.98	≥ 0.98	≥ 0.98
Temperature range (ambient temp.)	-13 °F to 140 °F, > 77 °F derating	-13 °F to 140 °F, > 104 °F derating	
Cooling	maintenance free vario fan for optimal cooling		
Sound level	< 52 dBA at 1 mtr		
Protection degree	IP23	IP23	IP23
Protections	over temperature, over load, short circuit, high battery, low battery		
MasterBus compatible	yes	yes	yes
CSI/DC alarm	yes, using a Multipurpose Contact Output (art. no. 77030500)		

OPTIONS

MasterView Read-out (art. no. 77010050)		Remote panel for reading the charge status of your battery charger, incl. error notifications. For use with PowerChargers and ChargeMasters.
MasterView Easy (art. no. 77010305)		Touch screen panel for reading charge status, current fold-back and/or Power Sharing setting. For use with ChargeMasters.
MasterShunt (art. no. 77020100)		MasterBus integrated battery monitor, with detailed information on the status of your batteries
MasterBus USB Interface (art. no. 77030100)		Communication port between MasterBus and the USB port of your PC; makes possible reading
Multipurpose Contact Output (art. no. 77030500)		MasterBus controllable potential-free contact, with alarm notification on the onboard system

* Charge algorithm can be changed to your requirements.

** The maximum charge current may sometimes be specified at 68 °F, take temperature compensation into account.



ChargeMaster
24/40-3
44020400



ChargeMaster
24/60-3
44020600



ChargeMaster
24/80-3
44020800



ChargeMaster
24/100-3
44021000

24 V	24 V	24 V	24 V
40 A at 28.8 V	60 A at 28.8 V	80 A at 28.8 V	100 A at 28.8 V
3	3	3	3
10 A	10 A	10 A	10 A
10 A	10 A	10 A	10 A
80-400 Ah	120-600 Ah	160-800 Ah	200-1000 Ah
120/230 V (90-265 V) – 50/60 Hz			
connector strips	connector strips	connector strips	connector strips
yes	yes	yes	yes
LCD display			
362x277x150		432x277x150	
14,3x11x5,9 inch		17x11x5,9 inch	
7 kg / 16 lbs		8 kg / 18 lbs	
with the supplied mounting bracket or 4x screw for wall mounting or 4x screw for floor installation			
ABYC A-31, SAE J1171/ISO8846 ignition protected			

IUoUo, automatic / 3-stage [Ⓢ] for gel/AGM/lead acid/Lithium Ion			
28.8 V (8 hours)	28.8 V (8 hours)	28.8 V (8 hours)	28.8 V (8 hours)
28.5 V (4 hours)	28.5 V (4 hours)	28.5 V (4 hours)	28.5 V (4 hours)
26.5 V	26.5 V	26.5 V	26.5 V
27.6 V	27.6 V	27.6 V	27.6 V
-76 mV/°F	-76 mV/°F	-76 mV/°F	-76 mV/°F
automatic			
< 5 mA	< 5 mA	< 5 mA	< 5 mA
1400 W	2000 W	2700 W	3375 W
yes, through MasterBus	yes, through MasterBus	yes, through MasterBus	yes, through MasterBus
≥ 0.98	≥ 0.98	≥ 0.98	≥ 0.98
-13 °F to 140 °F, > 104 °F derating			
maintenance free vario fan for optimal cooling			
< 52 dBA at 1 mtr			
IP23	IP23	IP23	IP23
over temperature, over load, short circuit, high battery, low battery			
yes	yes	yes	yes
yes, using a Multipurpose Contact Output (art. no. 77030500)			

Remote panel for reading the charge status of your battery charger, including error notifications.

For use with PowerChargers and ChargeMasters.

Touch screen panel for reading charge status, current fold-back and/or Power Sharing setting. For use with ChargeMasters.

for a optimised charging process, incl. voltage, current, remaining time and consumption capacity in percentage.

and configuration of your MasterBus system on the PC when combined with MasterView System software (free to download).

(low voltage or no AC), replacement of the CSI alarm contact.

For detailed specifications, scale drawings, 3D files, certificates and manuals see www.mastervolt.us/chargers