

Technical specifications



ChargeMaster
12/25-3

ChargeMaster
12/35-3

ChargeMaster
12/50-3

ChargeMaster
12/70-3*

ChargeMaster
12/100-3*

Article no.	44010250	44010350	44010500	44010700	44011000
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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				
Total charge current	25 A @ 14.4 V	35 A @ 14.4 V	50 A @ 14.4 V	70 A @ 14.4 V	100 A @ 14.4 V
Number of battery outlets	3				
Charge current second output	25 A	35 A	50 A	10 A	10 A
Charge current third output	25 A	35 A	50 A	10 A	10 A
Charge characteristic	IUoUo, automatic / 3-step for gel/AGM/wet cel				
Charge voltage Bulk (25 °C/77 °F)	14.40 V				
Charge voltage Absorption (25 °C/77 °F)	14.25 V				
Charge voltage Float (25 °C/77 °F)	13.25 V				
Max. Absorption time	4 hour				
Max. Bulk time	8 hour (start Bulk timer @ 13.25 V)				
Min. Absorption time	15 min				
Dimensions (hwxwd)	210x130x60 mm 8.3x5.1x2.4 inch	301x210x131 mm 11.9x8.3x5.2 inch	360x277x150 mm 14.2x10.9x5.9 inch		
Weight	1 kg / 2.2 lbs	4 kg / 8.8 lbs	6.7 kg / 14.8 lbs		
Battery capacity (recommendation)	50-250 Ah	70-350 Ah	100-500 Ah	140-700 Ah	200-1000 Ah

TECHNICAL SPECIFICATIONS

Power factor regulations	≥ 0.98				
Full load consumption (230 V AC)	420 VA	600 VA	850 VA	1200 VA	1700 VA
Temperature compensation	battery temperature sensor including 6 metre cable delivered as a standard				
Voltage compensation	yes, automatic				
DC consumption	< 10 mA				
Display	LED			LCD	
MasterBus connectivity	smart system integration via MasterBus (CAN)/Ethernet				
Temperature range	-25 to 65 °C, derating above 40 °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 / UL pending / SAE J1171/ISO 8846 ignition protected (12/35, 12/50, 12/70 & 12/100)				
	SAE J1171/ISO 8846 ignition protected available in Q2 2010 (12/25)				

OPTIONS

MasterView Read-out (art. no. 77010050)		status panel, MasterVision compatible
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
MasterBus USB Interface (art. no. 77030100)		operates in combination with MasterAdjust software, freeware from www.mastervolt.com
MasterShunt (art. no. 77020100)		MasterBus compatible shunt, including Ah counting and control of charger to ensure optimized charging

• At request also available for DC input voltage from 90-400 V DC.

Technical specifications



	ChargeMaster 24/12-3	ChargeMaster 24/20-3	ChargeMaster 24/30-3	ChargeMaster 24/40-3*	ChargeMaster 24/60-3*	ChargeMaster 24/80-3*	ChargeMaster 24/100-3*
Article no.	44020120	44020200	44020300	44020400	44020600	44020800	44021000






GENERAL SPECIFICATIONS

Nominal input voltage	120/230 V (90-265 V)						
Nominal input frequency	50/60 Hz (45-65 Hz)						
Nominal output voltage	24 V						
Total charge current	12 A @ 28.8 V	20 A @ 28.8 V	30 A @ 28.8 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						
Charge current second output	12 A	20 A	30 A	10 A	10 A	10 A	10 A
Charge current third output	12 A	20 A	30 A	10 A	10 A	10 A	10 A
Charge characteristic	IUoUo, automatic / 3-step for gel/AGM/wet cel						
Charge voltage Bulk (25 °C/77 °F)	28.8 V						
Charge voltage Absorption (25 °C/77 °F)	28.5 V						
Charge voltage Float (25 °C/77 °F)	26.5 V						
Max. Absorption time	4 hour						
Max. Bulk time	8 hour (start Bulk timer @ 26.5 V)						
Min. Absorption time	15 min						
Dimensions (hwxwxd)	210x130x60 mm	301x210x131	360x277x150	430x277x150	430x277x150	430x277x150	430x277x150
	8.3x5.1x2.4 inch	11.9x8.3x5.2 inch	14.2x10.9x5.9 inch	16.9x10.9x5.9 inch	16.9x10.9x5.9 inch	16.9x10.9x5.9 inch	16.9x10.9x5.9 inch
Weight	1 kg / 2.2 lbs	4 kg / 8.8 lbs	6.7 kg / 14.8 lbs	8.8 kg / 19.4 lbs	8.8 kg / 19.4 lbs	8.8 kg / 19.4 lbs	8.8 kg / 19.4 lbs
Battery capacity (recommendation)	25-120 Ah	40-200 Ah	60-300 Ah	80-400 Ah	120-600 Ah	160-800 Ah	200-1000 Ah

TECHNICAL SPECIFICATIONS

Power factor (cos phi)	≥ 0.98						
Full load consumption (230 V AC)	400 VA	690 VA	1000 VA	1400 VA	2000 VA	2700 VA	3375 VA
Temperature compensation	battery temperature sensor including 6 metre cable delivered as a standard						
Voltage compensation	yes, automatic						
DC consumption with connected battery	< 5 mA						
Display	LED			LCD			
MasterBus connectivity	smart system integration via MasterBus (CAN)/Ethernet						
Temperature range	-25 to 65 °C, derating above 40 °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 / UL pending / SAE J1171/ISO 8846 ignition protected (24/20, 24/30, 24/40, 24/60, 24/80, & 24/100)						
	SAE J1171/ISO 8846 ignition protected available in Q2 2010 (24/12)						

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Subject to alterations. For more information please visit
www.mastervolt.com/chargemaster