

PowerCharger 12/20-3



Product code: 44210200

Powering the comforts of home anywhere, any time

Charging up to three batteries simultaneously

Easy to install

User-friendly operation

PowerCharger battery chargers

Your introduction to the quality of Mastervolt, the high performance marine PowerChargers offer you many features in a lightweight, compact design. PowerCharger battery chargers feature high frequency switch mode technology, which makes them extremely efficient and lightweight. Designed for worldwide marine applications (90-265 V AC, 50/60 Hz), they are also power factor corrected (> 0.98).

PowerChargers may be used with lead acid, gel, AGM or spiral batteries and will charge up to 3 battery banks simultaneously. Their built-in memory functions prevent overcharging.

PowerChargers include an auxiliary power supply to provide DC voltage even if the batteries are not connected and can revive a 'dead battery'. They supply optimal charging in a wide variety of ambient temperatures and feature variable speed fans. Offering full charging current even with low quality power, they offer no reduction of charging power if input power is low.

Designed specifically for the marine environment with corrosion-resistant materials, the PowerChargers feature easy-to-read displays and captive screws for ease of installation and operation. All PowerChargers meet global standards including FCC class B, over temperature, ignition protection, UL, ABYC requirements and are CE certified.

The PowerCharger series is not compatible with Mastervolt's MasterBus network CANbus system. If you'd like to expand to this system, please use the ChargeMaster series in your application.

Specifications

General specifications

Nominal output voltage	12 V
Total charge current	20 A
Number of battery outlets	3
Charge current second output	20 A
Charge current third output	20 A
Battery bank size	50-250 Ah
Nominal input voltage	120/230 V (50/60 Hz)
AC connection	6.5 ft AC cable
Power supply mode	yes
Display/read-out	LED display
Fastening	screw
Dimensions, hxxwx	234 x 132 x 60 mm
	9.2 x 5.2 x 2.4 inch
Weight	1.8 kg
	4.0 lb
Compliance	CE, E-mark (95/54/EG), SAE J1171 (ISO8846 ignition protected), ABYC A-31, UL (incl. marine supplement FCC class B)

Technical specifications

Charge characteristic	IUoUo, automatic / 3-step+ for gel/AGM/wet/Lithium Ion
Charge voltage Bulk	14.4 V
Charge voltage Absorption	14.25 V
Absorption time	4 hours
Charge voltage Float (wet batteries)	13.25 V
Charge voltage Float (Gel/AGM batteries)	13.8 V
Temperature compensation	-22 mV/ °C
	-12 mV/ °F
DC voltage compensation	automatic
Power consumption (DC side)	< 2 mA
Full load consumption (230 V AC)	420 W
Current Control function	no
Power factor control	> 0.98
Temperature range (ambient temp.)	-25 °C to +65 °C
	-13 to 149 °F
Cooling	natural cooling
Protection degree	IP23
Protections	over temperature, over load, short circuit, high/low battery voltage
MasterBus compatible	no
Charger Status Interface (alarm contact)	yes, using a Multipurpose Contact Output (code 77030500)

PowerCharger 12/40-3



Product code: 44210400

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PowerCharger battery chargers

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PowerChargers may be used with lead acid, gel, AGM or spiral batteries and will charge up to 3 battery banks simultaneously. Their built-in memory functions prevent overcharging.

PowerChargers include an auxiliary power supply to provide DC voltage even if the batteries are not connected and can revive a 'dead battery'. They supply optimal charging in a wide variety of ambient temperatures and feature variable speed fans. Offering full charging current even with low quality power, they offer no reduction of charging power if input power is low.

Designed specifically for the marine environment with corrosion-resistant materials, the PowerChargers feature easy-to-read displays and captive screws for ease of installation and operation. All PowerChargers meet global standards including FCC class B, over temperature, ignition protection, UL, ABYC requirements and are CE certified.

The PowerCharger series is not compatible with Mastervolt's MasterBus network CANbus system. If you'd like to expand to this system, please use the ChargeMaster series in your application.

Specifications

General specifications

Nominal output voltage	12 V
Total charge current	40 A
Number of battery outlets	3
Charge current second output	40 A
Charge current third output	40 A
Battery bank size	100-450 Ah
Nominal input voltage	120/230 V (50/60 Hz)
AC connection	connector strips
Power supply mode	yes
Display/read-out	LED display
Fastening	with supplied mounting bracket or 4x screw for wall mounting or 4x screw for floor installation
Dimensions, hwxwd	291 x 210 x 131 mm 11.5 x 8.3 x 5.2 inch
Weight	4 kg 8.8 lb
Compliance	CE, E-mark (95/54/EG), SAE J1171 (ISO8846 ignition protected), ABYC A-31, UL (incl. marine supplement FCC class B)

Technical specifications

Charge characteristic	IUoUo, automatic / 3-step+ for gel/AGM/wet/Lithium Ion
Charge voltage Bulk	14.4 V
Charge voltage Absorption	14.25 V
Absorption time	4 hours
Charge voltage Float (wet batteries)	13.25 V
Charge voltage Float (Gel/AGM batteries)	13.8 V
Temperature compensation	-22 mV/ °C -12 mV/ °F
DC voltage compensation	automatic
Power consumption (DC side)	< 5 mA
Full load consumption (230 V AC)	700 W
Current Control function	no
Power factor control	> 0.98
Temperature range (ambient temp.)	-25 °C to 70 °C -13 to 158 °F
Cooling	vario fan
Protection degree	IP23
Protections	over temperature, over load, short circuit, high/low battery voltage
MasterBus compatible	no
Charger Status Interface (alarm contact)	yes, using a Multipurpose Contact Output (code 77030500)