ChargeMaster Plus 24/60-3



Product code: 44320600



ChargeMaster Plus is the next generation of battery chargers that integrates multiple functions into one single device. Replacing auxiliary chargers, battery isolators and VSR, ChargeMaster Plus reduces system complexity and cost. Designed for versatility, it charges a maximum of three batteries in a fast and safe way and works anywhere in the world.

Battery's Best Friend

With the new Battery's Best Friend architecture, ChargeMaster Plus is capable of charging a multitude of battery chemistries, sizes and voltages. All batteries are charged with the fast and safe 3-step+ charge method. Other unique features are:

- · Revival mode: automatically revives even fully depleted batteries.
- · Multi voltage: charge 12 V starter battery in a 24 V system, without additional components.
- · Priority Charge: redirect available power to the lowest battery, for faster charging.
- · Smart Input: charge all three batteries from one single alternator for continuous charging on the go.

Global Charging

The ChargeMaster Plus handles worldwide AC voltages and frequencies. Resisting large voltage fluctuations and high temperatures, it keeps working in harsh environments. For marine and mobile markets, the ChargeMaster Plus is CE, ABYC, UL, SAE, CEC and RCM/C-Tick compliant.

System Simplicity

Nowadays, equipment must be self-explaining. The ChargeMaster Plus displays the charge phase of all three outputs in an understandable way. Robust and ergonomic connections save installation time. An integrated VSR eliminates the need for additional components and ensures that the alternators energy is funnelled through to the batteries.

Powerful Connections

In modern applications, all components work together. CAN-based MasterBus enables the charger to communicate with displays, shunts and power systems including communication standards like CZone, NMEA and CANopen. The ChargeMaster Plus can operate as a power supply for delicate communication equipment, or during the construction phase of a boat.

Features

- · Multicharger with two outputs, one in/output, DC-DC converter, current limiter and VSR.
- · Combine Lithium Ion, Gel or AGM, and large or small battery banks on a single battery charger.
- · Charges multiple batteries while being underway.
- $\cdot~$ Extended specifications: offers 20 % more output at 14.4 V and 80 % charging power at 60 °C.
- · Safe Charge: quickly recognize the State of Charge for extended battery life.
- · Very wide operating range of 80-275 V AC, 35-70 Hz.
- · Compact, easy to connect and quick to install.



Specifications

General specifications

Nominal input voltage

Nominal output voltage Max. charge current per output

Smart In-/Output output voltage 12 or 24 V Smart In-/Output output current

5-10 A at 12 V; 5-20 A at 24 V (adjustable) Smart In-/Output input current max. 20 A at 24 V

Max. AC current (230 V / 120 V) 10.2 A / 20.4 A Total charge current 60 A at 28.8 V Number of battery outlets 3 (max.) 200-500 Ah Battery capacity range 120/230 V (80-275 V) 50/60 Hz

AC connection screw terminals, suitable up to up to 6 mm²

Power supply mode Display/read-out LED display Dimensions, hxwxd 384 x 250 x 127 mm 15.1 x 9.8 x 5.0 inch

Weight 5.9 kg 13.0 lb

Approvals CE, ABYC, UL1236, SAE J1171, ISO 8846, CEC/DOE, RCM/C-Tick

24 V

60 A

Technical specifications

Charge characteristic IUoUo, automatic / 3-step+ for Gel/AGM/Lithium Ion/traction/spiral -30 mV/°C / -17 mV/°F temperature sensor included Temperature compensation DC voltage compensation through MasterShunt

Power consumption (DC side) < 2 mA (MasterBus off) **Current Control function** yes, through MasterBus Power factor control > 0.98

-25 °C to 80 °C, derating < 0 °C and > 40 °C Temperature range (ambient temp.)

-13 to 176 °F Cooling vario fan

Protection degree IP23, vertical mounting Protections over-temperature, overload, short circuit, high/low battery voltage,

ignition protection MasterBus compatible

yes, using a Multipurpose Contact Output (product code 77030500) Charger Status Interface (alarm contact)

