ChargeMaster Plus 24/60-3 CZone



Product code: 44320605



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 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.
- · 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, the ChargeMaster Plus supports not only MasterBus but also CZone and NMEA. This enables the charger to communicate with displays, shunts and power systems including communication standards like, FireCan, CANopen and many more. The ChargeMaster Plus can operate as a power supply for delicate communication equipment, or during the construction phase of a boat.

Features

- · MasterBus, CZone and NMEA communication.
- · 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.
- · 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.
- \cdot $\:$ Very wide operating range of 80-275 V AC, 35-70 Hz.
- · Compact, easy to connect and quick to install.



Specifications

Communication & monitoring

Communication interfaces

General specifications

Nominal output voltage

Max. charge current per output

Smart In-/Output output voltage

Smart In-/Output output current Smart In-/Output input current

Max. AC current (230 V / 120 V) Total charge current Number of battery outlets Battery capacity range

Nominal input voltage

AC connection Power supply mode Display/read-out Dimensions, hxwxd

Weight

Approvals

Technical specifications

Charge characteristic
Temperature compensation

DC voltage compensation Power consumption (DC side) Current Control function

Power factor control

Temperature range (ambient temp.)

Cooling

Protection degree Protections

MasterBus compatible

Charger Status Interface (alarm contact)

MasterBus, CZone, NMEA

24 V 60 A

12 or 24 V

5-10 A at 12 V; 5-20 A at 24 V (adjustable)

max. 20 A at 24 V 10.2 A / 20.4 A 60 A at 28.8 V 3 (max.)

200-500 Ah

120/230 V (80-275 V) 50/60 Hz

screw terminals, suitable up to up to 6 mm²

ves

LED display 384 x 250 x 127 mm 15.1 x 9.8 x 5.0 inch

5.9 kg 13.0 lb

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

IUoUo, automatic / 3-step+ for Gel/AGM/Lithium Ion/traction/spiral

-60 mV/°C / -76 mV/°F; temperature sensor included

through MasterShunt < 2 mA (MasterBus off) yes, through MasterBus

> 0.98

-25 °C to 80 °C, derating < 0 °C and > 40 °C

-13 to 176 °F vario fan

IP23, vertical mounting

over-temperature, overload, short circuit, high/low battery voltage,

ignition protection

yes

yes, using a Multipurpose Contact Output (code 77030500)

