CombiMaster 24/3500-100 (120 V)



Product code: 35523500



Unmatched performance at an unprecedented price

Designed with the customer in mind and using the latest technology, the CombiMaster range is all about user-friendliness and reliability. But don't let that friendly appearance misguide you: the powerful CombiMaster range drives even the heaviest and most sensitive loads with ease!

With the CombiMaster, power dips and failures belong to the past. The automatic AC transfer system switches between generator or mains and inverter output, ensuring a constant power supply. Its *Power Assist* function prevents tripping of the mains fuse in case you're connected to a weak land line or small generator.

The CombiMaster range delivers unmatched performance and value for money. As you would expect from Mastervolt, the CombiMaster is completed with MasterBus, CZone and NMEA 2000 compatible communication, allowing for a broad range of monitoring and system integration options.

Remote Control and Monitoring options

- · MasterBus compatible via SmartRemote or EasyView 5 display.
- · CZone / NMEA 2000 compatible via Touch 5 or Touch 10 display.
- · NMEA 2000 compatible via 3rd party multifunctional display.

Parallel and Split-phase operation

The CombiMaster 3500/4500/5000 functionality goes beyond stand-alone operation, the design also allows parallel and split phase configurations for larger applications up to 35 kW.

Features

- · Most compact and lightweight Combi in its class.
- · Reliable, hum-free and longer operation from your batteries.
- · Starts even the heaviest and most sensitive loads.
- · Intelligent 3-step+ battery charger for faster and safer charging.
- · Automatic switching between mains and inverter mode.
- · Power Assist prevents blown mains fuses.
- · Generator compatible.
- · Integrated CZone, MasterBus and NMEA 2000 communication.
- · Quick installation with heavy duty connections.



Specifications

Output waveform

Specifications sine wave inverter

Nominal DC voltage 24 V (20,4-32 V)

Output voltage 120 V

Output frequency 60/50 Hz (configurable)

Continuous power at 40 °C / 104 °F, cos phi 1 3500 W
Peak power (30 sec) 5250 W
Surge power (5 sec) 7000 W
Max. efficiency 93 %

Battery no-load power consumption 47 W (on mode) / < 1 mA (off mode)

true sine

Energy saving mode consumption 25 W Synchronise with mains yes

Specifications battery charger

Input voltage range 90-140 V
Max. input current 32 A (adjustable)

Max. charge current at 40 °C / 104 °F 100 A at 28.5 V (configurable)

Battery temperature sensor yes, included

Battery voltage sense automatic compensation

Specifications transfer system

AC input 50 A (switched) max

AC output 85 max A
AC input fuse Yes
Transfer speed 10 ms
Transfer voltage range 90-140V
Transfer frequency range 40-65 Hz

General specifications

Galvanic isolation yes
Display/read-out LED display
Dimensions broad

Dimensions, hxwxd 568 x 359 x 170 mm 22.4 x 14.1 x 6.7 inch

Weight 17 kg 37.5 lb

Compliance ABYC A31, UL1236, UL1741, SAEJ1171

Technical specifications

Charge characteristic UoUo, automatic / 3-step+ for flooded, Gel/AGM and MLI, configurable

Recommended battery capacity 200-1000 Ah (based on gel batteries, may differ for other types)

Ground relay yes, configurable by means of mechanical jumper

Temperature range (ambient temp.) -25°C to 60°C, derating above 40°C, shutdown above 60°C °C

-13 to 32 °F Cooling vario fan

Protection degree IP23 (vertical mounting)
Safety class IEC protection class I

Humidity protection conformal coating, max. 95 % relative humidity, non condensing Protections over-temperature, overload, short circuit, high/low battery voltage

Power Assist yes, supports AC input with power from the battery Power Sharing yes, allows you to select AC Input fuse setting

MasterBus compatible yes
CZone / NMEA 2000 compatible yes

