CombiMaster 12/3000-100 (230 V)

Product code: 35013000

MASTERVOLT
THE POWER TO BE INDEPENDENT

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.

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.
- E-mark certified.

Specifications

Specifications sine wave inverter

Nominal DC voltage	12 V (10.2-16 V)
Output voltage	230 V
Output frequency	50/60 Hz (configurable)
Output waveform	true sine
Continuous power at 40 °C / 104 °F, cos phi 1	3000 VA / 2600 W
Peak power (30 sec)	4500 VA / 3900 W
Surge power (5 sec)	6000 VA / 5200 W
Max. efficiency	93 %
Battery no-load power consumption	30 W (on mode) / < 1 mA (off mode)
Energy saving mode consumption	10 W
Synchronise with mains	yes

Specifications battery charger

Input voltage range	170-280 V
Max. input current	10 A (adjustable)
Max. charge current at 40 °C / 104 °F	100 A at 14,25 V (configurable)
Battery temperature sensor	yes, included
Battery voltage sense	automatic compensation

Specifications transfer system

AC input	25 A (switched)
AC output	38 A
AC input fuse	yes
Transfer speed	10 ms
Transfer voltage range	wide: 90-280 V / narrow: 170-280 V
Transfer frequency range	40-65 Hz

General specifications

Galvanic isolation	yes
Display/read-out	LED display
Dimensions, hxwxd	448 x 284 x 155 mm 17.6 x 11.2 x 6.1 inch
Weight	9.3 kg 20.5 lb
Approvals	CE, E-mark, AZ/NZS

Technical specifications

Charge characteristic	IUoUo, automatic / 3-step+ for flooded, Gel/AGM and MLI, configurable
Recommended battery capacity	300-800 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 > 40 °C -13 to 140 °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