# AC Master 12/700 (120 V)



Product code: 28510700



Mastervolt sine wave inverters have proven themselves under the most extreme conditions for over 25 years. Our inverter family consists of AC Master, Mass Sine and Mass Sine Ultra models, ranging from 300 watt up to 40 kW. The AC Master is ideal for small and medium-sized applications, while Mass Sine and the advanced Mass Sine Ultra inverters are mainly intended for larger systems and for professional purposes.

#### AC Master series: Reliable AC power for recreational and semi-professional use

These affordable sine wave inverters convert 12 or 24 V battery voltage into reliable 230 V 50/60 Hz or 120 V 50/60 Hz grid power, making them ideal for recreational and semi-professional applications. The AC Master series is easy to install and delivers full output, even under the most demanding conditions. The pure sine wave technology provides an outstanding power quality, ensuring the correct functioning of sensitive equipment. The usage of high frequency switching technology eliminates any annoying humming and buzzing sounds.

Representing complete value for money, these ruggedly built inverters provide essential home comforts when you're far from the nearest grid connection.

#### **Features**

- · Pure sine wave technology protects sensitive equipment.
- · Delivers full output at high peak power under the most demanding conditions.
- · Automatic power saving system for extended runtime.
- · Compact and lightweight design, saving valuable installation time.
- Reliable and safe operation; protected against over-temperature, overload, short circuit, high or low battery voltage.
- $\cdot$  Variable speed fan for quiet operation at low power.
- · Optional remote control for instant switch off of the inverter and all connected equipment (not available

for the 300 and 500 W models).

· Convenient plug connection for all models, 2500/3500 Watt models also hard wired.

#### In addition, the 2500/3500 Watt models offer:

- · Combine 2 up to 15 units to obtain high power or 3-phase systems.
- · Integrated transfer system, switches automatically between AC power sources.

#### **Applications**

Both recreational and semi-professional use, where grid power varies or is unavailable. Applications include lighting, appliances, electric cooking and power tools. For (mobile) applications in your home, office or service vehicle, or during your holidays.



# Specifications

### **General specifications**

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Output voltage
Output waveform
Nominal battery voltage
Recommended battery capacity
Continuous power at 25 °C / 77 °F, cos phi 1
Continuous power at 40 °C / 104 °F, cos phi 1
Peak load (1 min)
Peak load (1 sec)
AC connection
Efficiency
Display/read-out
Alarms
Dimensions, hxwxd
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Weight

Approvals

## **Technical specifications**

Technology

Low battery voltage, switches off at Low battery voltage, switches on at High battery voltage, switches off at High battery voltage, switches on at Input current (nominal load) No-load power consumption (ON mode) No-load power consumption (energy saving mode) Minimal DC fuse (slow blow) Minimal cable size Harmonic distortion typical Cos phi Temperature range (ambient temp.)

Cooling Protection degree Protections

MasterBus compatible

100/110/115/120 V - 50/60 Hz (selectable) true sine 12 V >= 100 Ah 700 W 700 W < 810 W < 1230 W North American socket with GFCI 91 % LED indication: battery voltage, load level, status potential free alarm contact 200 x 330 x 83 mm 7.9 x 13.0 x 3.3 inch 2,6 kg 5.7 lb safety: UL 458, EMC: FCC class B

high frequency, input & output fully isolated 10,5 V 12,5 V 16,5 V 14,5 V 70 A < 1,5 A < 0.1 A 100 A 25 mm<sup>2</sup> < 5 % all power factors allowed -20 °C to 60 °C, derating power > 40 °C -4 to 140 °F temperature and load controlled fan IP21, horizontal wall mounting over-temperature, overload, short circuit, high/low voltage, reverse polarity (fuse) no

