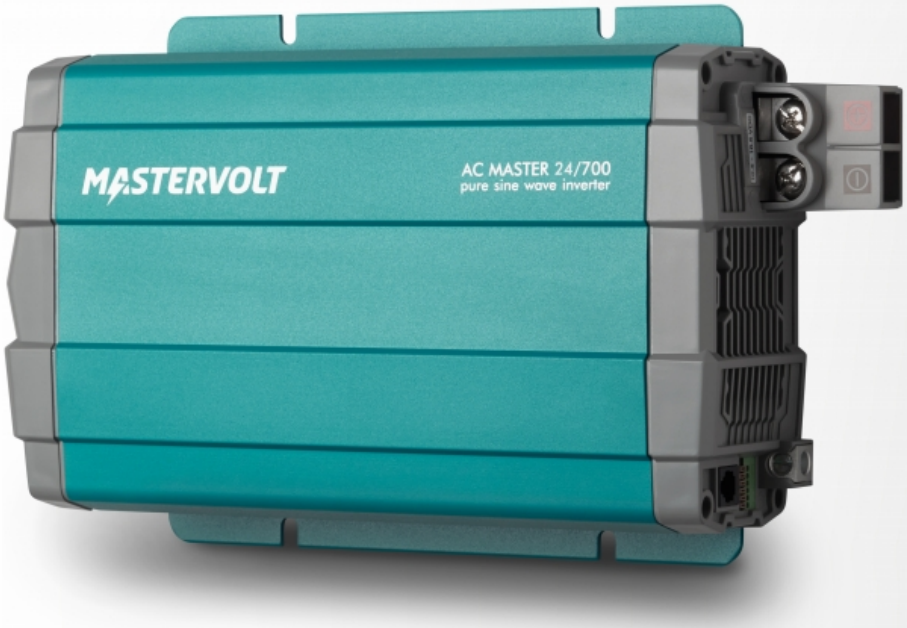
AC Master 24/700 (230 V)



Product code: 28020700

MASTERVOLT
THE POWER TO BE INDEPENDENT

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.
- 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

Output voltage	200/220/230/240 V - 50/60 Hz (selectable)
Output waveform	true sine
Nominal battery voltage	24 V
Recommended battery capacity	>= 50 Ah
Continuous power at 25 °C / 77 °F, cos phi 1	700 W
Continuous power at 40 °C / 104 °F, cos phi 1	700 W
Peak load (1 min.)	< 810 W
Peak load (1 s)	< 1230 W
AC connection	plug connection EU (Schuko), with UK plug (code 28220700) or with NZ/AU plug (code 28420700)
Galvanic isolation	yes
Efficiency	93 %
Display/read-out	LED indication: battery voltage, load level, status
Alarms	potential free alarm contact
Dimensions, hxwxd	200 x 330 x 83 mm 7.9 x 13.0 x 3.3 inch
Weight	2.7 kg 6.0 lb
Compliance	CE, E-mark, RCM

Technical specifications

Technology	high frequency, input & output fully isolated
Low battery voltage, switches off at	21 V
Low battery voltage, switches on at	25 V
High battery voltage, switches off at	33 V
High battery voltage, switches on at	29 V
Input current (nominal load)	35 A
No-load power consumption (ON mode)	< 0.8 A
No-load power consumption (energy saving mode)	< 0.06 A
Minimal DC fuse (slow blow)	50 A
Minimal cable size	16 mm²
Harmonic distortion typical	< 5 %
Cos phi	all power factors allowed
Temperature range (ambient temp.)	-20 °C to 60 °C, derating power > 40 °C -4 to 140 °F
Cooling	temperature and load controlled fan
Protection degree	IP21, horizontal wall mounting
Protections	over-temperature, overload, short circuit, high/low voltage, reverse polarity (fuse)
MasterBus compatible	yes, using a MasterBus AC Master Interface