

Overview of AC Master & Mass Sine sine wave inverters



Article no. 230 V	12/200 AC Master	12/350 AC Master	12/800 Mass Sine	12/1200 Mass Sine	12/2000 Mass Sine	24/200 AC Master	24/350 AC Master	24/800 Mass Sine	24/1500 Mass Sine	24/2500* Mass Sine	24/5000 Mass Sine
28010200	28010350	28010800	24011000	24011200	24012000	28020200	28020350	24020800	24021500	24022500	24095100
n.a.	28520350	n.a.	25011000	25011200	25012000	n.a.	n.a.	n.a.	25021000	25022500	25024000
GENERAL SPECIFICATIONS											
Nominal battery voltage	12 V	12 V	12 V	12 V	12 V	24 V	24 V	24 V	24 V	24 V	24 V
P30 power Tamb= 25°C, cos phi 1	200 VA	350 VA	800 VA	1200 VA	2000 VA	200 VA	350 VA	800 VA	1500 VA	2500 VA	5000 VA
Nom. power Tamb= -40°C, cos phi 1	200 VA	350 VA	650 VA	1000 VA	1800 VA	200 VA	350 VA	650 VA	1200 VA	2000 VA	4000 VA
Maximal peak load	400 VA	700 VA	1600 VA	2400 VA	4000 VA	400 VA	700 VA	1600 VA	2900 VA	5000 VA	10000 VA
Output waveform	true sine	true sine	true sine	true sine	true sine	true sine	true sine	true sine	true sine	true sine	true sine
Max. efficiency	90%	86%	92%	92%	92%	93%	89%	92%	92%	92%	90%
Output voltage**	230 V, ± 5%	230 V, ± 5%	230 V, ± 5%	230 V, ± 5%	230 V, ± 5%	230 V, ± 5%	230 V, ± 5%	230 V, ± 5%	230 V, ± 5%	230 V, ± 5%	230 V, ± 5%
Frequency	50/60 Hz, ± 0.03 Hz	50/60 Hz, ± 0.03 Hz	50 Hz, ± 0.05 Hz	50 Hz, ± 0.05 Hz	50 Hz, ± 0.05 Hz	50/60 Hz, ± 0.03 Hz	50/60 Hz, ± 0.03 Hz	50 Hz, ± 0.05 Hz	50 Hz, ± 0.05 Hz	50/60 Hz, ± 0.05 Hz	50/60 Hz, ± 0.05 Hz
Dimensions, hwxwx.d. in mm	74x152x242	74x152x242	325x220x111	340x261x130	420x318x130	74x152x242	74x152x242	325x220x111	340x261x130	420x318x130	475_5x318x254
Weight	1.65 kg	1.85 kg	3.9 kg	6 kg	9.4 kg	1.65 kg	1.85 kg	3.9 kg	6 kg	9.7 kg	19 kg
Minimum battery capacity	>50 Ah	>80 Ah	>100 Ah	>150 Ah	>200 Ah	>25 Ah	>40 Ah	>50 Ah	>150 Ah	>200 Ah	>400 Ah
OPTIONS											
Model C4-RI (art. no. 70404110)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Masterlink/MICC (art. no. 70403105)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
System Manager M1CC (art. no. 70400115)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Universal connection cables for the remote controls (please state when ordering):	• 6 metre - art. no. 6502001030 / • 10 metre - art. no. 6502100100 / • 15 metre - art. no. 6502100150										
Transfer system	..... the Masterswitch and Systems switch can be connected to all inverters										
TECHNICAL SPECIFICATIONS											
Technology	HF	HF	HF	HF	HF	HF	HF	HF	HF	HF	HF
Switch off voltage low battery	10.3V, ±0.5V	10.3V, ±0.5V	10.5V, ±0.5V	10V, ±0.5V	10V, ±0.5V	20.6V, ±0.5V	20.6V, ±0.5V	19V, ±0.5V	19V, ±0.5V	19V, ±0.5V	19V, ±0.5V
Switch on voltage low battery	12.3V, ±0.5V	12.3V, ±0.5V	12.3V, ±0.5V	11V, ±0.5V	11V, ±0.5V	24.6V, ±0.5V	24.6V, ±0.5V	22 V, ±0.5V	22 V, ±0.5V	22 V, ±0.5V	22 V, ±0.5V
Switch off voltage high battery	15.3V, ±0.5V	15.3V, ±0.5V	15.3V, ±0.5V	15.5V, ±0.5V	15.5V, ±0.5V	30.6V, ±0.5V	30.6V, ±0.5V	31V, ±0.5V	33V, ±0.5V	33V, ±0.5V	33V, ±0.5V
Switch on voltage high battery	14.6V, ±0.5V	14.6V, ±0.5V	14.5V, ±0.5V	14.5V, ±0.5V	14.5V, ±0.5V	29.2 V, ±0.5V	29.2 V, ±0.5V	30V, ±0.5V	31V, ±0.5V	31V, ±0.5V	31V, ±0.5V
Max. allowable ripple on DC	5% RMS	5% RMS	5% RMS	5% RMS	5% RMS	5% RMS	5% RMS	5% RMS	5% RMS	5% RMS	5% RMS
Input current (nominal load)	23A	38A	38A	42A	68A	15A	25A	34A	70A	120A	240A
No load power consumption:											
• off mode	0 mA	0 mA	0 mA	0 mA	0 mA	0 mA	0 mA	0 mA	0 mA	0 mA	0 mA
• stand-by mode	n.a.	n.a.	65mA/0.8W	43mA/0.5W	50mA/0.6W	n.a.	n.a.	35mA/0.8W	25mA/0.6W	25mA/0.6W	n.v.t.
• 'low energy' mode (208 V)	n.a.	n.a.	410mA/4.9W	420mA/4.5W	420mA/4.5W	n.a.	n.a.	200mA/4.9W	180mA/4.5W	225mA/5.4W	n.v.t.
• 'high power' mode (230 V)	0.8A/9.6W	0.8A/9.6W	470mA/5.6W	450mA/5.3W	480mA/6.6W	1.4A/16.8W	0.5A/13W	2.40mA/5.6W	2.00mA/5.9W	250mA/6W	250mA/6W
DC fuse required (slow blow)	30A	40A	100A	120A	240A	160A	20A	63A	100A	160A	2x160A
Minimum DC cable size	supplied	supplied	supplied	16 mm ²	25 mm ²	supplied	supplied	16 mm ²	25 mm ²	50 mm ²	2x 50 mm ²
Harmonic distortion typical	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
AC connection (single phase, 3-wire)	CEE-7/7****	CEE-7/7****	internal	internal	internal	CEE-7/7****	CEE-7/7****	internal	internal	internal	internal
CoS Phi	.....	.....	.....	.....	.....	all power factors allowed	all power factors allowed	.....	.....	.....	.....

* Also available for 48 V, art. no. 48/500; 240040500 / art. no. 48/2500; 24042500.

** 15% load reduction for the 120 V/60 Hz models.

*** 120 V models: 120 Volt, ± 5%.

**** The 120 V models are standard equipped with an US/NEMA5-15 AC connection. IEC320 or hardwiring optional.

THE POWER TO BE INDEPENDENT



Sine wave inverters:
from battery to 230 V outlet

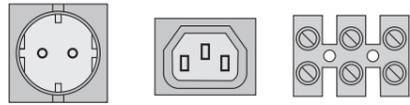
There are times on the road or at your destination when all you need is a normal outlet with 230 V/50 Hz power. The AC Master inverter offers you the easiest possible solution. A connection to your vehicle battery converts the 12 or 24 V battery voltage to 230 V/50 Hz electricity without any hassle. The tiny device offers tailored power from 200 to 1200 W, and is fully Plug and Play: From now on, you can use practically any device with a plug in the same way you would at home, wherever you are.

Models for 12 V and 24 V batteries

- 230 V/50 Hz output.
- Also available with an output of 120 V/ 60 Hz.
- Capacity range from 200 to 1200 W.

Easy to integrate

- Instantly integrates into existing systems.
- Your vehicle engine charges the battery.
- In larger systems, the battery can be charged by timely connection to the grid or solar power. Ask your Mastervolt representative about this solution.



Several different versions

- 230 V/50 Hz outlet for standard West European plugs.
- 120 V/60 Hz with outlets for US plugs.
- Fixed connection for semi-professional applications such as delivery vans.



Longer-lasting battery power

Advanced high-frequency technology allows the AC Master to make the most of the electricity from the battery. You can rest easy knowing that you have to charge less often yet still enjoy more power.



Clear reception and high-quality picture

The AC Master is perfectly suited to premium TFT screens. The pure sine wave voltage results in clear sound and a longer life for your equipment.



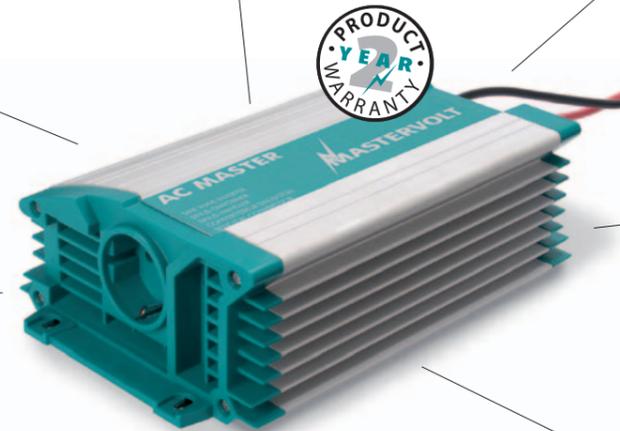
PC Power

Laptops and small desktop PCs work superbly with the AC Master. Do ensure that you choose a version with the right capacity.



Charging wireless equipment

Batteries small and large must be charged regularly. And it's especially important to remember this in places where no mains power is available. The AC Master provides the solution.



All home appliances work smoothly

If you would like to use a blow-drier or curling iron, the 700 or 1200 Watt AC Master provides the necessary power.



Warmly recommended for meals

The AC Master 1200 supplies just the right power to heat up a meal in the microwave. Need to keep other equipment on at the same time? Check also the Mass Sine inverters.

Order the complete Mastervolt Mobile Powerbook 2007

The brand-new Mastervolt Mobile Powerbook 2007 will be published soon. This fully updated and comprehensive product catalogue offers you a wealth of information on all Mastervolt products. Also included are full specifications, the latest introductions and a wide variety of suggestions for your system. As a visitor to The Commercial Vehicle Show, you can order the Mobile Powerbook 2007 free of charge by filling in the coupon and be in the running for **winning one of the 10 iPods!**

