

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 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.

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.



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.
- 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.



Specifications

AC Master sine wave inverters 12 V



	AC Master 12/300	AC Master 12/500	AC Master 12/700	AC Master 12/1000
Product code 230 V	28010302	28010502	28010700	28011000
With UK plug	n.a.	n.a.	28210700	28211000
With NZ/AU plug	n.a.	n.a.	28410700	28411000
Product code 120 V NEW	n.a.	n.a.	28510700	n.a.
GENERAL SPECIFICATIONS				
Output voltage	230 V – 50 Hz (± 0,1.%)	230 V – 50 Hz (± 0,1.%)	200/220/230/240 V 50/60 Hz (selectable)	200/220/230/240 V 50/60 Hz (selectable)
Output waveform	true sine	true sine	true sine	true sine
Nominal battery voltage	12 V	12 V	12 V	12 V
Recommended battery capacity	≥ 60 Ah	≥ 100 Ah	≥ 100 Ah	≥ 130 Ah
Continuous power at 25 °C / 77 °F, cos phi 1	300 W	500 W	700 W	1000 W
Continuous power at 40 °C / 104 °F, cos phi 1	250 W	400 W	700 W	1000 W
Peak load	600 W	800 W	< 810 W (1 min) < 1230 W (1 s)	< 1150 W (1 min) < 1750 W (1 s)
AC connection	universal	universal	plug connection EU (Schuko) or UK	plug connection EU (Schuko) or UK
Efficiency	90 %	90 %	91 %	92 %
Parallel configuration	n.a.	n.a.	n.a.	n.a.
3-Phase configuration	n.a.	n.a.	n.a.	n.a.
Display/read-out	LED display	LED display	LED indication: battery voltage, load level, status	
Dimensions, hxxwx d	210 x 130 x 60 mm 8.3 x 5.1 x 2.4 inch	210 x 130 x 60 mm 8.3 x 5.1 x 2.4 inch	200 x 330 x 83 mm 7.9 x 13 x 3.3 inch	200 x 372 x 83 mm 7.9 x 14.6 x 3.3 inch
Weight	1.16 kg / 2.55 lb	1.22 kg / 2.69 lb	2.7 kg / 6 lb	3.3 kg / 7.3 lb
Alarms	4 alarm modes	4 alarm modes	potential free alarm contact	potential free alarm contact
Approvals	CE, E-mark, ABYC A-31	CE, E-mark, ABYC A-31	CE, E-mark, RCM	CE, E-mark, RCM
TECHNICAL SPECIFICATIONS				
Technology	high frequency, input & output fully isolated			
Input current (nominal load)	22.5 A	37.5 A	70 A	100 A
No-load power consumption (energy saving mode)	0.33 A – 4 W	0.33 A – 4 W	< 0.1 A	< 0.1 A
Minimal DC fuse (slow blow)	2x 40 A	2x 40 A	100 A	125 A
Minimal cable size	1.5 mtr DC cable delivered as standard		25 mm ²	35 mm ²
Harmonic distortion typical	< 6 %	< 6 %	< 5 %	< 5 %
Cos phi	all power factors allowed			
Transfer system	n.a.	n.a.	n.a.	n.a.
Temperature range (ambient temp.)	-20 °C to 60 °C, derating power > 40 °C / -4 °F to 140 °F, derating power > 104 °F			
Protection degree	IP23, vertical wall mounting	IP23, vertical wall mounting	IP21, horizontal wall mounting	
Protections	over-temperature, over load, short circuit, high/low battery voltage		over-temperature, overload, short circuit, high/low voltage, reverse polarity (fuse)	
Cooling	natural/forced	natural/forced	temperature and load controlled fan	
MasterBus compatible	no	no	yes, using a MasterBus AC Master Interface	

ACCESSORIES				
	<p>AC Master Remote Control 70405080</p>	n.a.	n.a.	option
<p>MasterBus AC Master Interface 77032700</p>	n.a.	n.a.	option	option

On/off control for the AC Master sine wave inverter with a clear on/off indicator which indicates when the inverter is active. In addition, the AC Master Remote Control makes it possible to turn the inverter on or off automatically by means of a 12-volt input, for example when switching on the onboard AC power or while starting an engine. The AC Master Remote Control comes with 8 m (25 ft) cable.

The MasterBus AC Master Interface allows seamless integration of an AC Master inverter into every MasterBus network. By adding the AC Master Interface to your installation, you can now control your AC Master inverter via our MasterBus communication network. A communication cable is included in the delivery.



NEW
MODEL



**AC Master
12/1500**

**AC Master
12/2000**

**AC Master
12/2500**

**AC Master
12/3500**

28011500
28211500
28411500
n.a.

28012000
n.a.
n.a.
28512000

28012500
28212500
28412500
n.a.

28013500
28213500
28413500
n.a.

200/220/230/240 V
50/60 Hz (selectable)

200/220/230/240 V
50/60 Hz (selectable)

230/240 V - 50/60 Hz
(selectable)

230/240 V - 50/60 Hz
(selectable)

true sine

true sine

true sine

true sine

12 V

12 V

12 V

12 V

≥ 160 Ah

≥ 200 Ah

≥ 270 Ah

≥ 360 Ah

1500 W

2000 W

2500 W

3500 W

1500 W

2000 W

2500 W

3500 W

< 1730 W (1 min)
< 2650 W (1 s)

< 2300 W (1 min)
< 4000 W (1 s)

< 3000 W (1 min)
< 4000 W (1 s)

< 4500 W (1 min)
< 6000 W (1 s)

plug connection EU
(Schuko) or UK

plug connection EU
(Schuko)

hardwired + plug connection EU
(Schuko)

hardwired + plug connection EU
(Schuko)

93 %

94 %

88 %

90 %

n.a.

n.a.

yes, up to 15 units

yes, up to 15 units

n.a.

n.a.

yes, 3 units

yes, 3 units

LED indication: battery voltage, load level, status

248 x 421 x 83 mm
9.8 x 16.6 x 3.3 inch

248 x 443 x 83 mm
9.8 x 17.4 x 3.3 inch

283 x 436 x 128 mm
11.1 x 17.2 x 5 inch

283 x 496 x 128 mm
11.1 x 19.5 x 5 inch

4.2 kg / 9.3 lb

5.2 kg / 9.3 lb

8 kg / 17.6 lb

10 kg / 22 lb

potential free alarm contact

potential free alarm contact

potential free alarm contact

potential free alarm contact

CE, E-mark, RCM

CE, E-mark, RCM

CE, E-mark, RCM

CE, E-mark, RCM

high frequency, input & output fully isolated

150 A

200 A

250 A

350 A

< 0.1 A

< 0.1 A

< 1.1 A

< 1.4 A

175 A

250 A

300 A

400 A

50 mm²

70 mm²

95 mm²

120 mm²

< 3 %

< 5 %

< 3 %

< 3 %

all power factors allowed

n.a.

n.a.

integrated, automatic (inverter to grid: 8-10 ms, grid to inverter: 16-50 ms). Not for parallel & 3-phase operation (external transfer system possible).

-20 °C to 60 °C, derating power > 40 °C / -4 °F to 140 °F, derating power > 104 °F

IP21, horizontal wall mounting

over-temperature, overload, short circuit, high/low voltage, reverse polarity (fuse)

temperature and load controlled fan

yes, using a MasterBus AC Master Interface

option

option

option

option

option

option

option

option

Specifications

AC Master sine wave inverters

24 V



	AC Master 24/300	AC Master 24/500	AC Master 24/700	AC Master 24/1000
Product code	28020302	28020502	28020700	28021000
With UK plug	n.a.	n.a.	28220700	28221000
With NZ/AU plug	n.a.	n.a.	28420700	28421000
Product code 120 V NEW	n.a.	n.a.	28520700	n.a.
GENERAL SPECIFICATIONS				
Output voltage	230 V – 50 Hz (± 0,1.%)	230 V – 50 Hz (± 0,1.%)	200/220/230/240 V 50/60 Hz (selectable)	200/220/230/240 V 50/60 Hz (selectable)
Output waveform	true sine	true sine	true sine	true sine
Nominal battery voltage	24 V	24 V	24 V	24 V
Recommended battery capacity	≥ 30 Ah	≥ 50 Ah	≥ 50 Ah	≥ 65 Ah
Continuous power at 25 °C / 77 °F, cos phi 1	300 W	500 W	700 W	1000 W
Continuous power at 40 °C / 104 °F, cos phi 1	250 W	400 W	700 W	1000 W
Peak load	600 W	800 W	< 810 W (1 min) < 1230 W (1 s)	< 1150 W (1 min) < 1750 W (1 s)
AC connection	universal	universal	plug connection EU (Schuko) or UK	plug connection EU (Schuko) or UK
Efficiency	91 %	91 %	93 %	94 %
Parallel configuration	n.a.	n.a.	n.a.	n.a.
3-Phase configuration	n.a.	n.a.	n.a.	n.a.
Display/read-out	LED display	LED display	LED indication: battery voltage, load level, status	
Dimensions, hxxwx d	210 x 130 x 60 mm 8.3 x 5.1 x 2.4 inch	210 x 130 x 60 mm 8.3 x 5.1 x 2.4 inch	200 x 330 x 83 mm 7.9 x 13 x 3.3 inch	200 x 372 x 83 mm 7.9 x 14.6 x 3.3 inch
Weight	1.16 kg / 2.55 lb	1.22 kg / 2.69 lb	2.7 kg / 6 lb	3.3 kg / 7.3 lb
Alarms	4 alarm modes	4 alarm modes	potential free alarm contact	
Approvals	CE, E-mark, ABYC A-31	CE, E-mark, ABYC A-31	CE, E-mark, RCM	CE, E-mark, RCM
TECHNICAL SPECIFICATIONS				
Technology	high frequency, input & output fully isolated			
Input current (nominal load)	11 A	19 A	35 A	50 A
No-load power consumption (energy saving mode)	0.16 A – 4 W	0.16 A – 4 W	< 0.06 A	< 0.05 A
Minimal DC fuse (slow blow)	40 A	40 A	50 A	63 A
Minimal cable size	1.5 mtr DC cable delivered as standard		16 mm ²	16 mm ²
Harmonic distortion typical	< 6 %	< 6 %	< 5 %	< 5 %
Cos phi	all power factors allowed			
Transfer system	n.a.	n.a.	n.a.	n.a.
Temperature range (ambient temp.)	-20 °C to 60 °C, derating power > 40 °C / -4 °F to 140 °F, derating power > 104 °F			
Protection degree	IP23, vertical wall mounting	IP23, vertical wall mounting	IP21, horizontal wall mounting	
Protections	over-temperature, over load, short circuit, high/low battery voltage		over-temperature, overload, short circuit, high/low voltage, reverse polarity (fuse)	
Cooling	natural/forced	natural/forced	temperature and load controlled fan	
MasterBus compatible	no	no	yes, using a MasterBus AC Master Interface	

ACCESSORIES				
	<p>AC Master Remote Control 70405080</p>	n.a.	n.a.	option
<p>MasterBus AC Master Interface 77032700</p>	n.a.	n.a.	option	option
<p><i>On/off control for the AC Master sine wave inverter with a clear on/off indicator which indicates when the inverter is active. In addition, the AC Master Remote Control makes it possible to turn the inverter on or off automatically by means of a 12-volt input, for example when switching on the onboard AC power or while starting an engine. The AC Master Remote Control comes with 8 m (25 ft) cable.</i></p> <p><i>The MasterBus AC Master Interface allows seamless integration of an AC Master inverter into every MasterBus network. By adding the AC Master Interface to your installation, you can now control your AC Master inverter via our MasterBus communication network. A communication cable is included in the delivery.</i></p>				

NEW
MODEL



**AC Master
24/1500**

**AC Master
24/2000**

**AC Master
24/2500**

28021500	28022000	28022500
28221500	n.a.	28222500
28421500	n.a.	28422500
n.a.	28522000	n.a.
200/220/230/240 V 50/60 Hz (selectable)	200/220/230/240 V 50/60 Hz (selectable)	230/240 V - 50/60 Hz (selectable)
true sine	true sine	true sine
24 V	24 V	24 V
≥ 80 Ah	≥ 110 Ah	≥ 135 Ah
1500 W	2000 W	2500 W
1500 W	2000 W	2500 W
< 1730 W (1 min) < 2650 W (1 s)	< 2300 W (1 min) < 4000 W (1 s)	< 3000 W (1 min) < 4000 W (1 s)
plug connection EU (Schuko) or UK	plug connection EU (Schuko)	hardwired + plug connection EU (Schuko)
94 %	94 %	88 %
n.a.	n.a.	yes, up to 15 units
n.a.	n.a.	yes, 3 units
LED indication: battery voltage, load level, status		
248 x 421 x 83 mm 9.8 x 16.6 x 3.3 inch	248 x 443 x 83 mm 9.8 x 17.4 x 3.3 inch	283 x 436 x 128 mm 11.1 x 17.2 x 5 inch
4.2 kg / 9.3 lb	11.5 kg / 5.2 lb	8 kg / 17.6 lb
potential free alarm contact		
CE, E-mark, RCM	CE, E-mark, RCM	CE, E-mark, RCM
high frequency, input & output fully isolated		
75 A	100 A	125 A
< 0.05 A	< 1.0 A	< 0.7 A
100 A	160 A	160 A
25 mm ²	35 mm ²	50 mm ²
< 5 %	< 5 %	< 5 %
all power factors allowed		
n.a.	n.a.	integrated, automatic (inverter to grid: 8-10 ms, grid to inverter: 16-50 ms). Not for parallel & 3-phase operation (external transfer system possible).
-20 °C to 60 °C, derating power > 40 °C / -4 °F to 140 °F, derating power > 104 °F		
IP21, horizontal wall mounting		
over-temperature, overload, short circuit, high/low voltage, reverse polarity (fuse)		
temperature and load controlled fan		
yes, using a MasterBus AC Master Interface		
option	option	option
option	option	option

