

Specifications AC Master sine wave inverters



**AC Master
12/300**

Product code 230 V (universal socket)

28010300

GENERAL SPECIFICATIONS

Nominal battery voltage	12 V
Minimum battery capacity	≥ 60 Ah
Output voltage (± 5%)	230 V – 50 Hz (± 0.1%)
Continuous power at 25 °C, cos phi I	300 W
Continuous power at 40 °C, cos phi I	250 W
Peak load	600 W
Output waveform	true sine
Efficiency	90%
AC connection	universal
Display/read out	LED display
Dimensions, hxxwxd	210x130x60 mm 8.3x5.1x2.4 inch
Weight	1.16 kg 2.55 lbs
Approvals	CE, E-mark, ABYC A-31

TECHNICAL SPECIFICATIONS

Technology	HF switch mode
Low battery voltage, switches off at	10 V, ± 0.5 V
Low battery voltage, switches on at	11 V, ± 0.5 V
High battery voltage, switches off at	16 V, ± 0.5 V
High battery voltage, switches on at	14.5 V, ± 0.5 V
Max. ripple on DC (battery)	10% RMS
Input current (nominal load)	22.5 A
No load power consumption:	
• 'on' mode (230 V)	0.58 A – 7 W
• standby (scan mode)	0.33 A – 4 W
Minimal DC fuse (slow blow)**	40 A
DC cable	included
Harmonic distortion typical	< 6%
Cos Phi	all power factors allowed
Temperature range (ambient temp.)	0 °C to 40 °C, derating power ≥ 40 °C
Switch off at (auto recover after cooling down)	50 °C
Cooling	natural/forced
Sound level	53 dBA at 1 mtr
Protection degree	IP23
Protections	over temperature, over load, short circuit, high battery, low battery
MasterBus compatible	no

* DC fuse depends on the cable size.

See www.mastervolt.com/inverters for detailed specifications, dimension drawings, certificates and manuals.



AC Master
12/500
28010500



AC Master
24/300
28020300



AC Master
24/500
28020500

12 V	24 V	24 V
≥ 100 Ah	≥ 30 Ah	≥ 50 Ah
230 V – 50 Hz (± 0.1%)	230 V – 50 Hz (± 0.1%)	230 V – 50 Hz (± 0.1%)
500 W	300 W	500 W
400 W	250 W	400 W
800 W	600 W	800 W
true sine	true sine	true sine
90%	91%	91%
universal	universal	universal
LED display	LED display	LED display
210x130x60 mm	210x130x60 mm	210x130x60 mm
8.3x5.1x2.4 inch	8.3x5.1x2.4 inch	8.3x5.1x2.4 inch
1.22 kg	1.16 kg	1.22 kg
2.69 lbs	2.55 lbs	2.69 lbs
CE, E-mark, ABYC A-31	CE, E-mark, ABYC A-31	CE, E-mark, ABYC A-31

HF switch mode	HF switch mode	HF switch mode
10 V, ± 0.5 V	20 V, ± 0.5 V	20 V, ± 0.5 V
11 V, ± 0.5 V	22 V, ± 0.5 V	22 V, ± 0.5 V
16 V, ± 0.5 V	32 V, ± 0.5 V	32 V, ± 0.5 V
14.5 V, ± 0.5 V	29 V, ± 0.5 V	29 V, ± 0.5 V
10% RMS	10% RMS	10% RMS
37.5 A	11 A	19 A
0.58 A – 7 W	0.29 A – 7 W	0.29 A – 7 W
0.33 A – 4 W	0.16 A – 4 W	0.16 A – 4 W
80 A	20 A	40 A
included	included	included
< 6%	< 6%	< 6%
all power factors allowed		
0 °C to 40 °C, derating power ≥ 40 °C		
50 °C	50 °C	50 °C
natural/forced	natural/forced	natural/forced
53 dBA at 1 mtr	53 dBA at 1 mtr	53 dBA at 1 mtr
IP23	IP23	IP23
over temperature, over load, short circuit, high battery, low battery		
no	no	no



Benefits

- Silent.
- Small & lightweight.
- Universal plug.
- Designed for recreational and semi-professional use.