

# AC Master



## From battery to 230 V outlet



- Best value for money
- Silent inverter power
- Small & low weight
- Universal socket
- Designed for marine environments

 **MASTERVOLT**

THE POWER TO BE INDEPENDENT

# Technical specifications AC Master



12/300 AC Master    12/500 AC Master    12/750\* AC Master    24/300 AC Master    24/500 AC Master    24/750\* AC Master

Article no. 230 V (universal socket)    28010300    28010500    27510700    28020300    28020500    27520700

## GENERAL SPECIFICATIONS

Nominal battery voltage	12 V			24 V		
Output voltage	230 V					
P30 power Tamb= 25 °C, cos phi 1	300 VA	500 VA	750 VA	300 VA	500 VA	750 VA
Maximal peak load	600 VA	800 VA	1200 VA	600 VA	800 VA	1200 VA
Output waveform	true sine					
Max. efficiency	90%	90%	91%	91%	91%	93%
Frequency	50 Hz, ±0.1 Hz		50 Hz, ±0.03 Hz	50 Hz, ±0.1 Hz		50 Hz, ±0.03 Hz
Dimensions (hxxwxd)	210x130x60 mm		230x160x70 mm	210x130x60 mm		230x160x70 mm
	8.3x5.1x2.4 inch		9x6.3x2.8 inch	8.3x5.1x2.4 inch		9x6.3x2.8 inch
Weight	1.16 kg	1.22 kg	2.2 kg	1.16 kg	1.22 kg	2.2 kg
	2.55 lbs	2.69 lbs	4.85 lbs	2.55 lbs	2.69 lbs	4.85 lbs
Minimum battery capacity	≥60 Ah	≥100 Ah	≥150 Ah	≥30 Ah	≥50 Ah	≥75 Ah

## TECHNICAL SPECIFICATIONS

Technology	HF switch mode					
Switch off voltage low battery	10 V, ± 3%		10.5 V, ±0.5 V	20 V, ± 3%		21 V, ±0.5 V
Switch on voltage low battery	11 V, ± 3%		12.5 V, ±0.5 V	22 V, ± 3%		25 V, ±0.5 V
Switch off voltage high battery	16 V, ± 3%		15.3 V, ±0.5 V	32 V, ± 3%		30.6 V, ±0.5 V
Switch on voltage high battery	14.5 V, ± 3%		14.2 V, ±0.5 V	29 V, ± 3%		28.4 V, ±0.5 V
Max. allowable ripple on DC	10% RMS		5% RMS	10% RMS		5% RMS
Input current (nominal load)	22.5 A	37.5 A	64 A	11 A	19 A	32 A
No load power consumption:	0 mA					
• switch off	0 mA					
• switch on @ Unom.	0.54 A/6.5 W			0.27 A/6.5 W		
• switch on @ save mode	0.33 A/4 W			0.16 A/4 W		
DC fuse required (slow blow)	40 A	80 A	100 A	20 A	40 A	50 A
DC cable for battery connection	included		16 mm <sup>2</sup> AWG4	included		10 mm <sup>2</sup> AWG4
Harmonic distortion typical	< 6%		< 3%	< 6%		< 3%
Cooling	natural/forced					
AC connection (single phase, 3-wire)	universal		IEC-1	universal		IEC-1
Cos Phi	all power factors allowed					
Operating temperature specified (will meet specified tolerances)	full spec 0 °C to 40 °C ambient temperature, 40 °C to 60 °C derating with 5 %/°C shutdown at 80 °C heat sink temperature					
Practical operating temperature (may not meet specified tolerances)	-25 °C to 40 °C ambient temperature, 40 °C to 60 °C derating with 5 %/°C shutdown at 80 °C heat sink temperature					
Standard and approvals	CE, E-marking					

\* The AC Master 750 is scheduled for release in 2010. Untill that date, a 700 W version is available (see price list for more information).

Subject to alterations. For more information please visit

[www.mastervolt.com/acmaster](http://www.mastervolt.com/acmaster)