

Mastervolt SineWave Inverter - AC Master 230V 12V

BLA Code	110425	110426	110501
Description	AC Master 12/300	AC Master 12/500	AC Master 12/700
General Specifications			
Output voltage	230V – 50 Hz (± 0,1.%)	230V – 50 Hz (± 0,1.%)	200/220/230/240V 50/60 Hz (selectable)
Output waveform	true sine	true sine	true sine
Nominal battery voltage	12V	12V	12V
Recommended battery capacity	>60 Ah	>100 Ah	>100 Ah
Continuous power at 25°C, cos phi 1	300 W	500 W	700 W
Continuous power at 40°C, cos phi 1	250 W	400 W	700 W
Peak load	600 W	800 W	<810 W (1 min) <1230 W (1 sec.)
Efficiency	90%	90%	91%
Parallel configuration	N/A	N/A	N/A
3 Phase configuration	N/A	N/A	N/A
Display/read out	LED Display	LED Display	LED Indication: battery voltage, status
Dimensions, H x W x D mm	210 x 130 x 60	210 x 130 x 60	200 x 330 x 83
Weight kg	1.16	1.22	2.7
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
Technical Specifications			
Technology	High frequency, input & output fully isolated		
Input current (nominal load)	22.5A	37.5A	70A
No load power consumption (energy saving mode)	0.33A – 4 W	0.33A – 4 W	<0.1A
Minimal DC fuse (slow blow)*	2x 40A	2x 40A	100A
Minimal cable size	1.5 meter DC cable delivered as standard		25 mm2
Harmonic distortion typical	< 6%	< 6%	<5%
Cos Phi	all power factors allowed		all power factors allowed
Transfer System	N/A	N/A	N/A
Temperature range (ambient temp.)	-20°C–40°C, >40°C derating		-20°C–40°C, >40°C derating
Protection Degree	IP23, horizontal wall mounting		IP21, horizontal wall mounting
Protections	over temperature, over load, short circuit, high/low battery voltage		over temperature, over load, 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 
Options			
Inverter Control Panel (ICP) 110505	N/A	N/A	option

*DC fuse depends on the cable size.

110502	110503	110504
AC Master 12/1000	AC Master 12/1500	AC Master 12/2500
200/220/230/240V 50/60 Hz (selectable)	200/220/230/240V 50/60 Hz (selectable)	230/240V 50/60 Hz (selectable)
true sine	true sine	true sine
12V	12V	12V
>130 Ah	>160 Ah	>270 Ah
1000 W	1500 W	2500 W
1000 W	1500 W	2500 W
<1150 W (1 min) <1750 W (1 sec.)	<1730 W (1 min) <2650 W (1 sec.)	<3000 W (1 min) <4000 W (1 sec.)
92%	93%	88%
N/A	N/A	yes, up to 15 units
N/A	N/A	yes, 3 units
LED Indication: battery voltage, status	LED Indication: battery voltage, status	LED Indication: battery voltage, status
200 x 372 x 83 mm	248 x 421 x 83 mm	283 x 436 x 128 mm
3.3	4.2	8
	potential free alarm contact	
CE, E-mark, RCM	CE, E-mark, RCM	CE, E-mark, RCM
	High frequency, input & output fully isolated	
100A	150A	250A
<0.1A	<0.1A	<1.1A
125A	175A	300A
35 mm ²	50 mm ²	95 mm ²
<5%	<3%	<3%
all power factors allowed	all power factors allowed	all power factors allowed
N/A	N/A	Integrated, automatic (intertver to grid: 8~10 ms, grid to inverter: 16~50 ms). Not for parallel & 3-phase operation (external transfer system possible)
-20°C–60°C, >40°C derating	-20°C–60°C, >40°C derating	-20°C–60°C, >40°C derating
	IP21, horizontal wall mounting	
	temperature and load controlled fan	
yes, using a MasterBus AC Master Interface 	yes, using a MasterBus AC Master Interface 	yes, using a MasterBus AC Master Interface 
option	option	option