





**Mastervolt SineWave Inverter - AC Master 230V 24V**

BLA Code	110264	110266	110506
Description	AC Master 24/300	AC Master 24/500	AC Master 24/700
<b>General Specifications</b>			
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	24V	24V	24V
Recommended battery capacity	>30 Ah	>130 Ah	>50 Ah
Continuous power at 25°C, cos phi 1	300 W	1000 W	700 W
Continuous power at 40°C, cos phi 1	250 W	1000 W	700 W
Peak load	600W	<1150 W (1 min) <1750 W (1 sec.)	<810 W (1 min) <1230 W (1 sec.)
Efficiency	91%	91%	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 mm
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
<b>Technical Specifications</b>			
Technology	High frequency, input & output fully isolated		
Input current (nominal load)	11A	19A	35A
No load power consumption (energy saving mode)	0.16A – 4 W	0.16A – 4 W	<0.06A
Minimal DC fuse (slow blow)*	40A	40A	50A
Minimal cable size	1.5 m DC cable delivered as standard	1.5 m DC cable delivered as standard	16 mm2
Harmonic distortion typical	<6%	<6%	<5%
Cos Phi	all power factors allowed	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	-20°C–40°C, >40°C derating
Protection Degree	IP23, vertical wall mounting		IP21, horizontal wall mounting
Protections	over-temperature, overload, 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 
<b>Options</b>			
Inverter Control Panel (ICP) 110505	option	option	option

\*DC fuse depends on the cable size.

110507	110508	110509
AC Master 24/1000	AC Master 24/1500	AC Master 24/2500
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
24V	24V	24V
>65 Ah	>80 Ah	>135 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	
50A	75A	125A
<0.05A	<0.05A	<0.7A
63A	100A	160A
16 mm <sup>2</sup>	25 mm <sup>2</sup>	50 mm <sup>2</sup>
<5%	<5%	<5%
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–40°C, >40°C derating	-20°C–40°C, >40°C derating	-20°C–40°C, >40°C derating
	IP21, horizontal wall mounting	
	over temperature, over load, short circuit, high/low voltage	
	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