

Specifications Mass Sine sine wave inverters



Mass Sine
12/800
24010800



Mass Sine
12/1200
24011200



Mass Sine
12/2000
24012000

Product code 230 V





GENERAL SPECIFICATIONS

	12 V	12 V	12 V
Nominal battery voltage	12 V	12 V	12 V
Recommended battery capacity	>100 Ah	>150 Ah	>200 Ah
Output voltage (± 5%)	230 V – 50 Hz (± 0.01 Hz)	230 V – 50 Hz (± 0.01 Hz)	230 V – 50 Hz (± 0.01 Hz)
P30 power at 40 °C, cos phi I	800 W	1200 W	2000 W
Continuous power at 40 °C, cos phi I	650 W	1000 W	1800 W
Peak load	1600 W	2400 W	4000 W
Output waveform	true sine	true sine	true sine
Efficiency	92%	92%	92%
Display/read-out	LED display	LED display	LED display
Dimensions, hxxxd	325x220x111 mm 12.8x8.7x4.4 inch	340x261x130 mm 13.4x10.3x5.1 inch	420x318x136 mm 16.5x12.5x5.4 inch
Weight	3.9 kg / 8.6 lbs	8 kg / 17.4 lbs	14.6 kg / 32.2 lbs
Approvals	CE, E-mark, ABYC A-31	CE, E-mark, ABYC A-31	CE, E-mark, ABYC A-31

TECHNICAL SPECIFICATIONS

	12 V	12 V	12 V
Technology	HF switch mode	HF switch mode	HF switch mode
Low battery voltage, switches off at	10 V, ± 0.5 V	10 V, ± 0.5 V	10 V, ± 0.5 V
Low battery voltage, switches on at	11 V, ± 0.5 V	11 V, ± 0.5 V	11 V, ± 0.5 V
High battery voltage, switches off at	15,5 V, ± 0.5 V	15,5 V, ± 0.5 V	15,5 V, ± 0.5 V
High battery voltage, switches on at	14,5 V, ± 0.5 V	14,5 V, ± 0.5 V	14,5 V, ± 0.5 V
Max. ripple on DC (battery)	5% RMS	5% RMS	5% RMS
Input current (nominal load)	73 A	110 A	183 A
No load power consumption:			
• 'on' mode (230 V)	470 mA – 5.6 W	450 mA – 5 W	480 mA – 6 W
• stand-by (scan mode)	65 mA – 0.8 W	43 mA – 0.5 W	50 mA – 0.6 W
Minimal DC fuse (slow blow)**	100 A	150 A	250 A
Minimal cable size	25 mm ²	50 mm ²	70 mm ²
Harmonic distortion typical	< 5%	< 5%	< 5%
Cos Phi	all power factors allowed	all power factors allowed	all power factors allowed
Temperature range (ambient temp.)	-25 °C to 80 °C; > 40 °C derating power		
Cooling	natural/forced	natural/forced	natural/forced
Sound level	48 dBA at 1 mtr	48 dBA at 1 mtr	48 dBA at 1 mtr
Protection degree	IP23	IP23	IP23
Protections	over temperature, over load, short circuit, high battery, low battery		
MasterBus compatible	yes, using a MasterBus Inverter Interface or AC Power Analyser		
AC connection	internal	internal	internal

OPTIONS

Model C4-RI (product code 70404110)		Remote control on/off for the Mass Sine sine wave inverter.
Masterlink/MICC (product code 70403105)		Battery consumption meter for 2 batteries, 12/24 V DC with LCD read-out, remote control for Mass Sine inverter and Mass battery charger or Mass Combi.
MasterBus Inverter Interface (product code 77030700)		Integrates the Mass Sine inverter in a MasterBus network.
AC Power Analyser (product code 77031200)		Integrates the Mass Sine inverter in a MasterBus network and visualizes the AC voltage, current and power.
Transfer system		The Masterswitch and Systemswitch can be connected to all inverters.

* Also available in 60 Hz; product code 1500 W model = 24121500 / product code 2500 W model = 24122500 / product code 5000 W model = 24195100.

** DC fuse depends on the cable size.

See www.mastervolt.com/inverters for detailed specifications, dimension drawings, certificates, manuals and the 120 V models.