

## Mastervolt Mass Combi in a MasterBus System

The Mastervolt Mass Combi fits perfectly within a MasterBus system. The system allows all components to be connected easily, provides a simple and intuitive operation and requires far fewer cables for installation. One MasterView Easy touch screen panel controls the entire system, displays information about the Combi as well as the batteries (via the MasterShunt) and operates the generator. The system can also be combined with Mastervolt's decentralised Digital Switching system.

For more MasterBus information, refer to page 118.

- 1 AC generator
- 2 Mass Combi Ultra Inverter/Chargers
- 3 Grid power
- 4 Solar panel
- 5 EasyView 5
- 6 DC Distribution system
- 7 AGM starter battery
- 8 Lithium Ion (LiFePO4) battery



## Mastervolt Mass Comb Ultra - 230V

BLA Code	110482	110484
Description	Mass Combi Ultra 12/3000-150	Mass Combi Ultra 24/3500-100
<b>Specifications Sine Wave Inverter</b>		
Nominal DC voltage	12V (9.5-16V)	24V (19-32V)
Output voltage	180-260V, adjustable	180-260V, adjustable
Output waveform	True sine	True sine
Continual power at 40°C, cos phi I	3000 W	3500 W
Surge capacity	6000 W	7000 W
Parallel configuration	Yes, up to 10 standard	Yes, up to 10 standard
3-Phase configuration	Yes, up to 3x3	Yes, up to 3x3
Max efficiency	90%	92%
Energy saving mode consumption	7 W	7 W
<b>Specifications Battery Charger</b>		
Max. charge current at 40°C	150 at 14.25V	100 A at 28.5V
Secondary charger output voltage	12V	12/24V Selectable, 3 Step
Secondary charge output current	10A	10A
battery Temperature sensor	Yes, included	Yes, included
<b>Transfer System Specifications</b>		
AC input (generator)	50A (switched)	50A (switched)
AC input (mains)	30A (switched)	30A (switched)
AC output 1	67A	67A
AC output 2	50A (switched)	50A (switched)
Transfer speed	Seamless (< 1 ms)	Seamless (< 1 ms)
<b>Solar Input DC Specifications</b>		
Input voltage range	25-50V	25-100V
Max. PV peak power	500 Wp	500 Wp
Max. input current	19A	19A
Max. Charge Current	30A at 14.25V	15A at 28.5V
MPP Tracker	full power at 25-50V	full power at 35-80V
<b>General Specifications</b>		
Display/read out	LED Display	LED Display
Dimensions, H x W x D	472 x 318 x 178 mm	472 x 318 x 178 mm
Weight kg	15.3	15.3
Approvals	CE, E-mark, ABYC, RMRS	CE, ABYC, RMRS
<b>Technical Specifications</b>		
Charge characteristic	IUoU, automatic 3 step+ for AGM/Gel/MLI/flooded/traction/spiral	
Ground relay	yes, configurable	yes, configurable
Temperature range (ambient temp.)	-25° C to 80°C, derating > 40°C	-25° C to 80°C, derating > 40°C
Cooling	Vario fan	Vario fan
Protection degree	IP23 (Vertical Mounting)	IP23 (Vertical Mounting)
Protections	Over temp, overload, short circuit, high/low battery voltage	
MasterBus compatible	yes	yes
<b>Options</b>		
6m cable with battery temperature sensor <b>110610</b>	Included	Included
15m cable with battery temperature sensor <b>110612</b>	Option	Option
EasyView 5 <b>110661</b>	Option	Option
MasterBus USB Interface 110564	Option	Option

\*DC fuse depends on the cable size.

110488	110483	110485
Mass Combi Ultra 48/3500-50	Mass Combi Pro 12/3000-150	Mass Combi Pro 24/3500-100
48V (38-62V)	12V (9.5-16V)	24V (19-32V)
180-260V, adjustable	180-260V, adjustable	180-260V, adjustable
True sine	True sine	True sine
3500 W	3000 W	
7000 W	6000 W	
Yes, up to 10 standard	Yes, up to 10 standard	Yes, up to 10 standard
Yes, up to 3x3	Yes, up to 3x3	Yes, up to 3x3
93%	90%	92%
7 W	7 W	7 W
50A at 57V	N/A	100 A at 28.5V
12/24V Selectable, 3 Step	N/A	N/A
10A	N/A	N/A
Yes, included	Yes, included	Yes, included
50A (switched)	50A (switched)	50A (switched)
30A (switched)	30A (switched)	30A (switched)
67A	67A	67A
50A (switched)	50A (switched)	50A (switched)
Seamless (< 1 ms)	Seamless (< 1 ms)	Seamless (< 1 ms)
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
LED Display	LED Display	LED Display
472 x 318 x 178 mm	472 x 318 x 178 mm	472 x 318 x 178 mm
15.3	15.3	15.3
CE, ABYC, RMRS	CE, E-mark, ABYC	CE, E-mark, ABYC
IUoU, automatic 3 step+ for AGM/Gel/MLI/flooded/traction/spiral		
yes, configurable	yes, configurable	yes, configurable
-25° C to 80°C, derating > 40°C	-25° C to 80°C, derating > 40°C	-25° C to 80°C, derating > 40°C
Vario fan	Vario fan	Vario fan
IP23 (Vertical Mounting)	IP23 (Vertical Mounting)	IP23 (Vertical Mounting)
Over temp, overload, short circuit, high/low battery voltage		
yes	yes	yes
Included	Included	Included
Option	Option	Option
Option	Option	Option
Option	Option	Option