

MasterBus



## The intelligent one-cable system

Less cables

Less labour

Complete system

Central and remote control

 **MASTERVOLT**

THE POWER TO BE INDEPENDENT



# A new era: Mastervolt builds MasterBus

MasterBus makes life easier for designers, builders and installers of power systems. This brilliantly simple platform for communication and connections ensures that all components 'speak' the same language. One communication protocol with high-speed CANbus technology. The optimum integration of power conversion and power storage now also includes digital switching. Control your system centrally or switch on a bunk light locally, all via MasterBus. The one-bus approach even allows control from your home. With integrated galvanic isolation, voltage drops over cables will not hamper communication on moments you want to relax. The perfect system from motorhome to superyacht.

## **The Power of Mastervolt: comprehensive expertise**

With MasterBus, Mastervolt offers advanced CANbus technology that is way ahead of all existing platforms in terms of speed, reliability, flexibility and expandability. As an 'A brand' in independent power supply, we have achieved this by deploying our in-house expertise at every level. From smart electronics to intelligent mechanics and applied ICT, Mastervolt has the answers.

## **Less is More!**

- Less cables and wires
- Less components
- Less hassle with protocols
- Less time lost during installation
- Less maintenance problems
- Less unnecessary power use
- More space
- More uniformity
- More functions for monitoring and control
- More configuration comfort
- More safety
- More reliability
- More for less!

### **More information**

Contact your nearest sales agent or visit [www.mastervolt.com](http://www.mastervolt.com)

# Operate and control your MasterBus system



#### Switch Input 4

PCB for four Carling switches to control any device on-board via one MasterBus cable. This PCB can be fitted behind your own custom panel or in combination with MasterVision art. no. 70803040 + switches.



#### Switch Input 3 (waterproof)

Makes the watertight Carling switches compatible with MasterBus. Multiple functions can be linked to the switches.



#### GPRS Module

Communicate with your boat via your mobile. Request information and operate equipment via text messages. If desired, this interface informs any mobile phone in case of an alarm.



#### Digital Input

Connects any switch to the MasterBus network. The feed for the input modules comes from the MasterBus network. The Digital Input has 4 input channels so you can connect up to 4 switches.



#### Digital DC 10x10A

The ten outputs are suitable for all DC users including lights, pumps and electronics. Operation via MasterBus products such as the Switch Input 3. The Digital DC 10x10A consists of 10 output channels of 10 A, which can be connected in parallel to switch higher currents (up to 100 A).



#### Digital AC 1x6A

The Digital AC 1x6A can switch AC loads anywhere in the vessel. Up to 6 A loads can be connected directly. Other loads are switched via a contactor.



#### MasterView Easy MKII

This multifunction display can control any product. Connected to a MasterShunt it act as a battery monitor. Connected to a generator it becomes a dedicated generator panel. A favorite page can be initiated to show the most important information or use it as a touch switch panel. For example battery current, fuel level and light switches in one overview and adapted to the boat owner's needs.

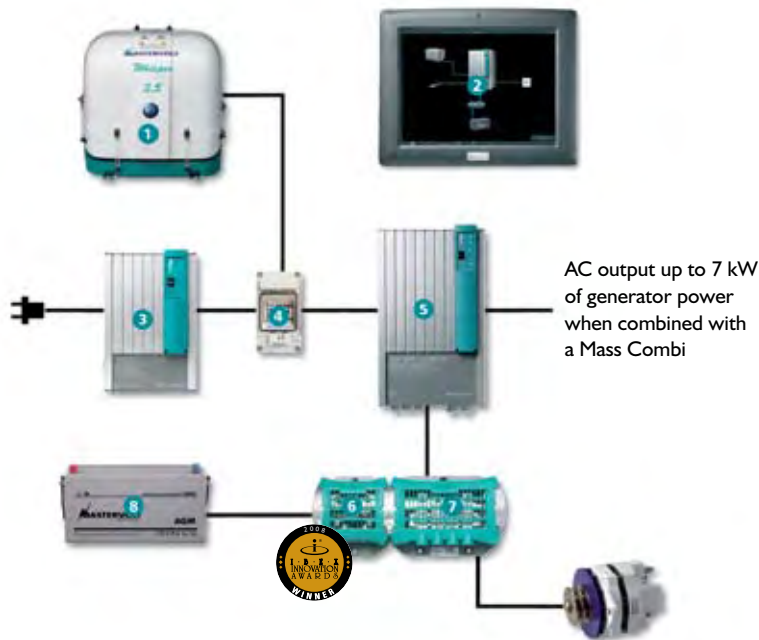


#### MasterView System

The full color graphical display helps installers to configure the electrical on-board system, and is extremely easy to reproduce. Configuration, monitoring and operation becomes smaller, easier, cheaper, lighter, faster & good looking. The software makes complicated electrical systems understandable for ship owners. Electricity has become fun to operate!

# MasterBus system

## 30/55 ft yacht



### 1. Whisper 3.5M generator

The world's first generator with full integration into the electric system. Without running additional wires, the generator can be started and stopped automatically via MasterBus by the MasterShunt battery monitor.

significantly. When the generator is started, a bus signal selects the settings associated with the generator in the Combi automatically.

### 2. MasterView System

Color touch screen display to control and monitor the complete Mastervolt system.

### 3. Mass GI 3.5 isolation transformer

The light, no humming isolation transformer of Mastervolt allows safe use of shore power on-board. Safe for crew and yacht.

### 4. Masterswitch 0 transfer system

This priority AC switching device selects either shore or generator.

### 5. Mass Combi inverter/charger combination

With the integration of MasterBus, operation of the Combi has simplified

### 6. MasterShunt 500 battery monitor

This simple to install product uses state of the art algorithms to calculate the state of the battery. Due to the integrated system fuse and bus connection this is a huge saving in wiring. The MasterShunt was awarded the IBEX innovation award in 2008!

### 7. DC Distribution 500

This distribution box can be plugged into the MasterShunt and houses 4 ANL fuses for safeguarding the system. Due to its two level/floor design, the footprint is as small as possible. A grounding terminal is provided as well.

### 8. AGM battery

The AGM battery is a good fit with this system.

#### Generator optional:

For extended periods of independence, a generator allows recharging the batteries even in combination with running heavy AC appliances like electric cooking.

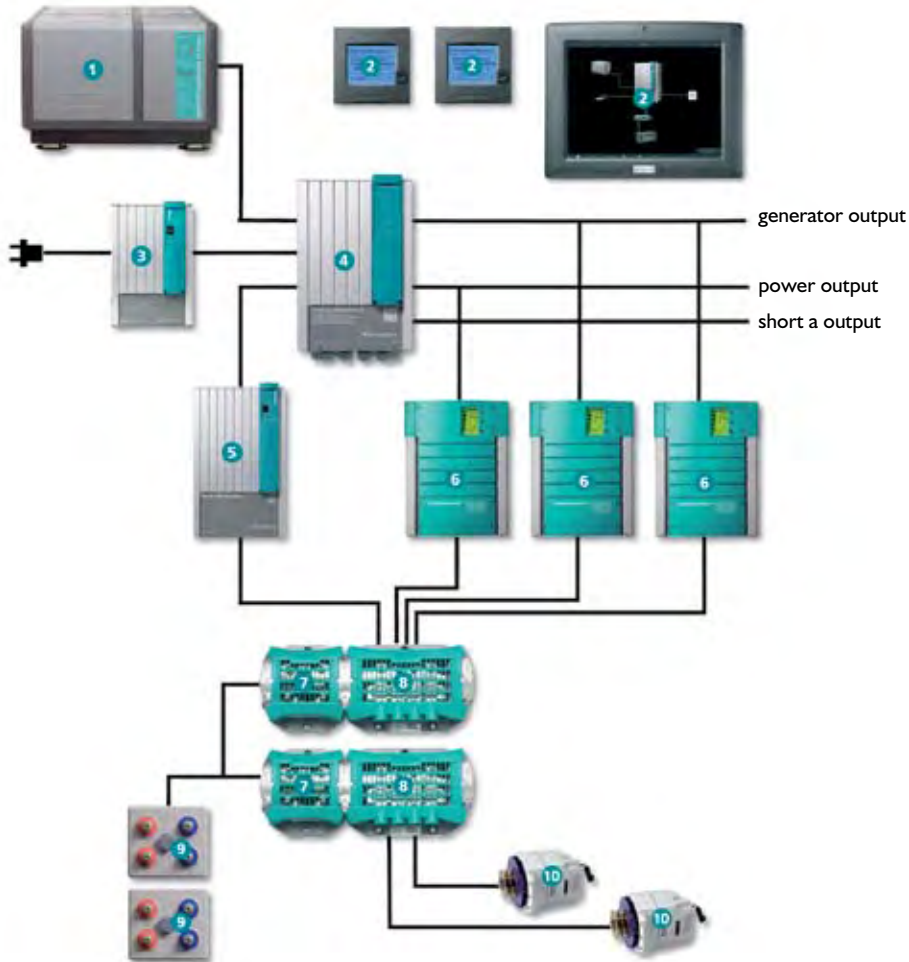
#### Alternator optional:

Fitting an alternator on the main engine offers more charging power while the engine is running. Mastervolt alternators are renowned for the ability to charge quickly, even at low engine RPMs.



# MasterBus system

## 50/80 ft yacht



### 1. Whisper 16 Ultra generator

available. The Mass inverter can be controlled via the MasterView display.

### 2. Monitoring: MasterView Easy (2x)

In this system one Easy is configured to be a dedicated generator remote, the other Easy monitors the machine room.

### MasterView System

The MasterView System operates the other products.

### 3. Mass GI 7 isolation transformer

This 32 A isolation transformer provides ample power for the on-board system when in harbour.

### 4. Systemswitch 16 transfer system

This priority switch box makes sure that the on-board system is connected to the right power sources. Due to multiple inputs and outputs, consumers can be connected to different power sources.

### 5. Mass Sine 24/5000 inverter

This inverter powers all on-board AC systems when no shore or generator is

### 6. ChargeMaster battery charger

Multiple chargers are running in parallel for charging the batteries as quickly as possible while running the generator or when connected to shore. Two chargers are running when shore power is available, a third runs when the generator is running.

### 7. MasterShunt 500

As the system current is above 500 A, a second MasterShunt is used in parallel with the first one. Thanks to the smart MasterBus technology, the two shunts appear on the MasterView display as a single battery monitor, providing clear and easy readable information.

### 8. DC Distribution 500

### 9. 2 V gel cell battery (12 x 2 V = 24 V)

### 10. Alternator



# Overview MasterBus products



MasterView System  
Article no. 77010400



MasterView Easy MKII  
Article no. 77010305



MasterShunt 500  
Article no. 77020100



DC Distribution 500  
Article no. 77020200



MasterBus USB Interface  
Article no. 77030100



MasterBus Modbus Interface  
Article no. 77030800



GPRS Module  
Article no. 77031000



MasterBus Inverter Interface  
Article no. 77030700



MasterBus Serial Interface  
Article no. 77030450



Multipurpose Contact Output  
Article no. 77030500



Digital Input  
Article no. 77030900



MasterBus Tanklevel Interface  
Article no. 77030300



MasterBus Repeater  
Article no. 77031100



NMEA Interface  
Article no. 77031800



Battery Contactor Interface  
Article no. 77031700



Digital AC 1x6A  
Article no. 77031500



Switch Input 3  
Article no. 77031300



Switch Input 4  
Article no. 77031400



Digital DC 10x10A  
Article no. 77020400



ChargeMaster range  
automatic battery chargers



Mass Systemswitch  
6, 10 & 16



Mass GI 3.5 + Mass GI 7  
isolation transformer



Whisper generators + MasterBus  
DDC Interface (art.no. 77031600)



Mass Combi  
12/2500-100 & 24/2500-60

Subject to change. For a complete overview of our products see [www.mastervolt.com/masterbus](http://www.mastervolt.com/masterbus)