

GPX-6



Revolutionary hybrid
power solution

Integrated generator,
charger and inverter

Extremely stable,
homelike power

Compact dimensions =
less volume and weight

Easy to install

One smart box for
homelike power



 **MASTERVOLT**

THE POWER TO BE INDEPENDENT



Gen Power Box: It's like being at home

Can a two to four times smaller generator still meet your demands concerning on-board power? Can such a generator start your air conditioning, while – at the same time – your dinner is in the oven and you switch on the lights? Like you're used to at home? Yes, it can! Get acquainted with the Mastervolt GPX-6! It is the hybrid marine power system, housing a generator, an inverter, a battery charger and a generator/inverter/shore transfer system.

Against a 'classic' setup the GPX-6 reduces volume by 35% and weight even by 50%, providing you a pure sine wave 230 V with an absolute stable 50 Hz onboard AC power. The GPX-6 also offers you a high voltage DC connection which can be used for ultra efficient use of wind, solar energy or electric propulsion. To effectively feed all equipment onboard you can even combine power from shore with power from the generator and batteries.

Smaller generator, more efficiency, less budget

With conventional generator setups the size of the generator is dictated by the highest load demand. Although the average load on the generator is much lower, you end up with a generator that is far too big for your power needs. Thus consuming more of your budget, more of your space, and most of time run at an unefficient low load level. The new Mastervolt GPX-6 changes the need for this over-specification, reduces fuel consumption and noise levels.

Full automatic operation

With the Mastervolt GPX-6 you have no more concerns about peak loads. For instance: you don't have to start the generator first when you switch on your air conditioning. The inverter will power this load from the batteries for the first 30 seconds. And after that the generator will start automatically. No attention needed, it's all fully automatic. The GPX-6 will operate according the user profile you have chosen: Eco, Performance or Minimum Generator Running.

Easy installation

Installing a Mastervolt GPX-6 is easy. It's only one compact box with all the essentials for your power needs. Through MasterBus, the intelligent one-cable system, you can connect all components on your boat quickly and without ado. With the MasterView Easy or MasterView System touch screen displays you can operate and monitor your system, even from a distance, with GPRS/SMS text messages.

More information?

Contact your nearest sales agent or visit www.mastervolt.com/gpx



A green power solution

In combining a variable speed diesel generator with inverter technology Mastervolt has created the ideal hybrid electrical power system. The system doesn't need full operation, not even to handle harsh start-up currents like for instance your air conditioning system. The GPX-6 offers 10 kW of start-up power and 2 kW continuously power from the Mastervolt batteries via the GPX. The generator does not run, only when a continuous load exceeds 2 kW – and when there is no shore power present.

Saving on fuel, material, size and weight

The revolutionary Mastervolt GPX-6 will improve your fuel efficiency by 30-40%. First: Thanks to the GPX concept you need a smaller generator to power your loads since the battery helps to deliver peak power. Second: The generator will never run with small loads or even Idle, thus saving the most uneconomical running time resulting in less maintenance. Third: The high efficiency permanent magnet alternator converts the 'rotating diesel power' into electricity 10 to 20% more efficiently. Fourth: There is no energy loss in the transfer from generator to battery to inverter, saving you another 5-10%. Last but not least, the compact dimensions of the housing also save space and weight.

8 different modes

POWER FROM SHORE	BATTERY	GENERATOR	MODE
No shore	Inverting	Standby	Inverter is powering AC loads.
No shore	Inverting	Starting/ Running	AC load is larger than 2 kW or batteries are running low, generator is started automatically.
No shore	Charging	Running	Charging batteries and running AC loads after long period without shore connection.
Shore	Charging	Standby	Charging batteries and running AC loads from shore connections.
Shore	Inverting	Standby	Loads are larger than available shore power; power from batteries is used to support AC loads.
Shore	Charging	Running	Shore power is too limited to run AC loads and charge batteries. Generator is started and supporting shore.
Shore	Inverting	Running	AC loads are heavier than the combined (limited) shore and generator can support, so battery power is support AC output as well.
No shore	No use	Standby	No AC available.



State-of-the-art technology

Variable speed generator with ultra high efficient permanent magnet alternator.

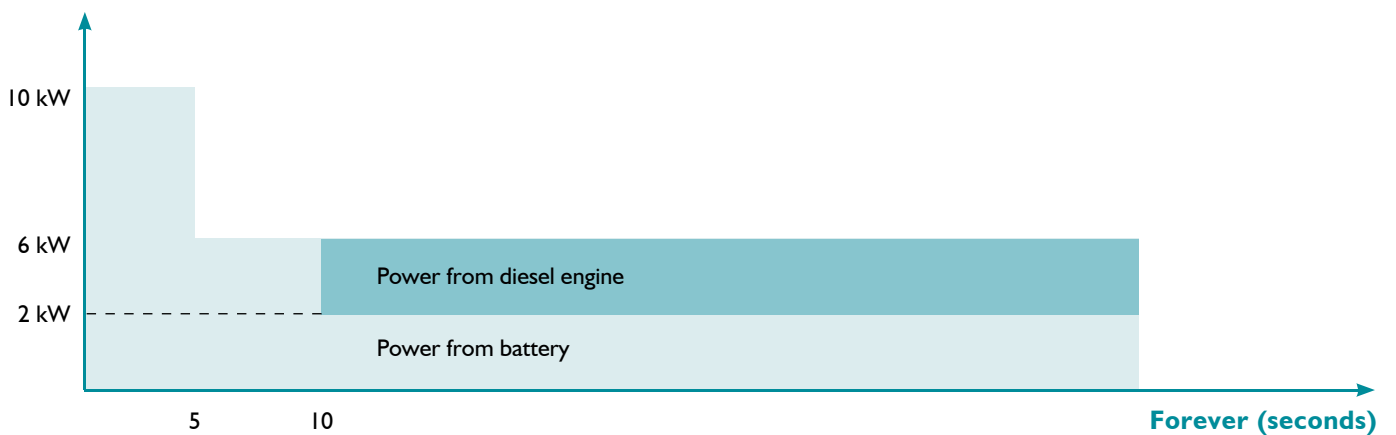


Perfect 230 V AC and 50 Hz

AC output is conditioned by power electronics so always perfect 50 Hz and 230 V AC. Even while running the generator and turning on and off heavy loads.



Available power



GPX-6 in a system

Combined power

Combined power of shore, batteries and generator in the most economical way.



Following system setup could be a common and reliable system setup for a motoryacht or sailing boat:

- 1 Mastervolt GPX-6 24 V
- 2 Mastervolt Lithium Ion batteries (320 Ah)
- Mastervolt MasterShunt
- Mastervolt MasterView System

A system setup like this will power without problems the following equipment:

- air conditioning
- microwave
- electric cooking
- TV and DVD player
- electric winches



User-friendly controls

The MasterView Easy (supplied as standard) or MasterView System (optional) touchscreen displays offer easy control of your system and a direct overview of the GPX.



Specifications GPX-6



GPX-6
51410060



GPX-6
51420060



GPX-6
51440060

Article no.

GENERAL SPECIFICATIONS

Output voltage	230 V	230 V	230 V
Frequency	50 Hz	50 Hz	50 Hz
Peak output (silent)	10 kW (5 seconds)	10 kW (5 seconds)	10 kW (5 seconds)
Output power (silent)	2 kW continuous	2 kW continuous	2 kW continuous
Output power (running)	6 kW continuous	6 kW continuous	6 kW continuous
Dimensions.(hxwx) d	700x455x525 mm / 27.6x17.9x20.7"		
Weight (dry weight)	80 kg / 176.4 lbs		

LOW VOLTAGE DC SPECIFICATIONS

Battery voltage	12 V	24 V	48 V
Battery charging current	120 A	80 A	40 A
Minimum battery capacity	400 Ah	200 Ah	100 Ah
Battery type settings	open lead / gel / traction / AGM / spiral / Li-Ion		
Charge characteristic	standard Mastervolt 3-step [Ⓢ]		

ALTERNATOR SPECIFICATIONS

Type	brushless permanent magnet alternator		
Continuous rated power	3000 rpm 4.2 kW	3000 rpm 4.2 kW	3000 rpm 4.2 kW

DIESEL ENGINE SPECIFICATIONS

Number of cylinders	1	1	1
Cylinder capacity	300 cc	300 cc	300 cc
Engine cooling	direct water cooled	direct water cooled	direct water cooled
Governing system	electronic	electronic	electronic



SPECIFICATIONS TRANSFER SYSTEM SHORE POWER

Max. current	32 A	32 A	32 A
Ground relay	yes	yes	yes
Transfer relay & RCD	yes	yes	yes

TECHNICAL SPECIFICATIONS

Temperature range operational	-20 to 40 °C, above 40 °C derating power		
Protection degree	enclosure IP23		
Relative humidity	protected against humidity and condensing air by conformal coating on both sides of all PCB's, max. 95% relative humidity, none condensing		
AC connections	terminal block		
DC connections	screw terminal M10		
Communication ports MasterBus	2x RJ45		
Temperatuursensor aansluiting	1x RJ11		

MONITORING

MasterView Easy (art. no. 77010305)		delivered as standard
MasterView System (art. no. 77010400)		optional
Touch screen to control and monitor all MasterBus products.		
Color touch screen to control and monitor your complete Mastervolt system.		

Subject to alterations. For our complete product range please visit www.mastervolt.com/gpx