



## Power Protection Solutions Pty Ltd

30 Beach Street, Kippa-Ring, Qld 4021, Australia

P.O. Box 122, Redcliffe, Qld 4020, Australia

Phone (07) 3283 7800

Fax (07) 3283 7811

Email [office@powersolutions.com.au](mailto:office@powersolutions.com.au)

Web [www.powersolutions.com.au](http://www.powersolutions.com.au)

Inverter / Chargers • Marine Switchboards • Battery Chargers • Desalinators • Generators

## MASTERVOLT REVOLUTIONISES THE SUPPLY OF ONBOARD POWER WITH THE WORLD'S FIRST HYBRID AC SYSTEM

Mastervolt has developed the world's first true hybrid solution for all on board 'mains' power requirements. The new all-in-one GPX-5 power plant cleverly combines a generator, inverter and battery charger with shore power to provide the power required at the moment it's required completely automatically. No longer does the consumer have to consider if and when he needs to start the generator before switching on high start-up power devices such as air conditioning or microwave, or high loads such as an electric cooker, kettle or coffee machine. The GPX-5 does the thinking for you.

Marc Persoon, Marketing Manager for Mastervolt, says, "The Mastervolt GPX-5 is a revolution in the design of systems for the supply of onboard electrical power. It's a new generation of hybrid power supply that combines power from shore, batteries and generator in the most efficient way - and all in a much smaller package than a conventional power system. There's nothing else that can match it on the market".



When choosing a conventional generator, the size of generator is determined by the peak load, which means for the majority of time, when the power consumption is much lower, the generator is oversized and inefficient. In the GPX-5, the generator and inverter work together to satisfy the highest loads because the battery helps to power short peaks in the AC load. As a result, the generator can be two to four times smaller in volume than that in a conventional set up.

The innovative system senses the switching on of high start-up power devices. For the first 30 seconds, the inverter powers the load completely from the batteries while the generator is started automatically and picks up the load.

What's more, the generator will never run idle or near idle without load, preventing uneconomical running. It's a similar concept to

Stop/Start found in modern cars – the generator only runs when it's needed. The GPX-5 improves fuel efficiency by an incredible 30 to 40% depending on system usage. Up to 5kW is available continuously when the generator is running.

The system provides perfect 50Hz, 230V AC even when powering a heavy load. There are three user adjustable profiles: eco, performance and minimum running. The GPX-5 is fully compatible with the Mastervolt MasterBus single-cable system and can be controlled and monitored from any MasterView System or Masterview Easy display, or even remotely with SMS texting by mobile phone using the GPRS interface.

An AC transfer system is built in – allowing one shore AC power connection in with one AC power out for the onboard system. Power from the shore can be combined with that from the generator and the inverter to feed the onboard consumers and reduce the load on the onboard systems. But only if the shore power is of a suitable standard since the device automatically checks the quality of the incoming supply, thereby protecting sensitive devices such as computers and televisions.

Designed to withstand the marine environment, the GPX-5 is an installer's dream with all the components housed in one easy-to-fit, heavily sound-proofed enclosure.

The end user is keeping the environment in mind when using the GPX-5, providing output kWh's at the lowest price and also with the lowest emission levels: a true 'green' proposition.

The new Mastervolt GPX-5 System will be available in 12V, 24V and 48V models, and comes with a MasterView Easy display. The GPX-5 is due to be released in the first quarter of 2011.

