

**Approval Date: 20 May 1998****Reviewed on : 23 October 2007****Version: 1****Purpose**

The portable generator is to deliver power for field operations such as bathymetric surveying, running water sampling and discharge measurements. The generator may be used for battery charging and to deliver power to a UPS. All mains powered devices, if any, will be connected to the UPS.

**Conditions and Requirements**

- The generator will be used in a roving mode, being moved from one site of operation to the other.
- The generator will be used in a survey boat, field vehicle and on shore.
- The generator shall be of such a design that it operates reliably under the prevailing environmental conditions as encountered during transport and field operations.
- The generator is intended for mobile use, therefore it shall be of a robust design.
- The generator shall be shock, moisture and dust resistant.
- The generator shall be easy to operate and maintain.
- The generator shall be supplied with the accessories as needed for an effective roving application.
- The generator shall have an expected technical lifetime of not less than 5 years.
- The generator shall be capable to operate for 1 month without any servicing.
- Operator's and technical manuals related to the type and model of the generator shall be part of the delivery.
- The generator shall be small and easy to transport, e.g. by wheelbarrow.
- A tool set for maintenance and simple repair and including a checklist of do's and don'ts shall be part of the delivery.

**Specifications**

<b>engine</b>	air-cooled petrol engine
<b>output</b>	220 VAC $\pm$ 5%, 47 to 53 Hz, single phase
<b>capacity</b>	as required by the load with at least 25% overload surge capacity
<b>size</b>	sum of length, width and height less than 200 cm
<b>dry mass</b>	$\leq$ 50 kg
<b>fuel consumption</b>	$\leq$ 0.4 kg/(kWh)
<b>fuel tank capacity</b>	for at least 2 hours of continuous full load operation
<b>starting method</b>	manual starting
<b>exhaust</b>	silencer with muffler
<b>environment</b>	ingress protection complying with IP 54 or better

**Accessories**

- voltmeter
- frequency indicator
- load indicator
- $\geq$ 5 metre extension cable with  $\geq$ 4 AC sockets.

## **Consumables**

- fuel filter
- spark plug
- oil filter
- engine oil
- fuses

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