

MCD48-5 DC Generator

Prime Power 5kW (Standby Power 4.8kW)

This unit is ideal for off grid application and with a 240V AC only output option is ideal for a home standby application.

Drawing from experience gained from our work within the defence sector the Hatz diesel engine was selected and adapted for extreme cold start conditions.

This engine was selected for it's rugged capability and with over 4000 2kW Light Field Generators carrying this unit currently in service with defence forces around the world, it was the natural choice.

Coupled to the specially designed HGI 48VDC 8 pole alternator that delivers a stable DC output and can easily be integrated with renewable energy technologies such as solar or wind and delivers controlled charging for Battery optimisation to maximise battery life.



- ◆ Design allows for installation internally In any corner of a cabin/garage

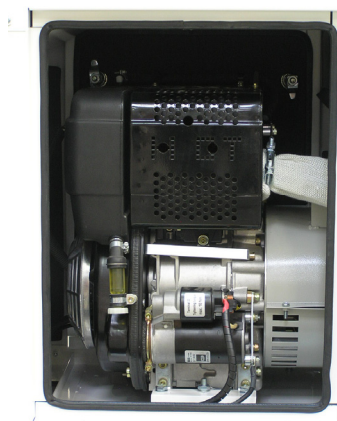
Brief Specification :

Engine

<i>Make</i>	<i>Hatz</i>
<i>Model</i>	<i>1B50</i>
<i>Cooling</i>	<i>Air-cooled</i>
<i>Speed</i>	<i>2800rpm</i>
<i>Governor System</i>	<i>Mechanical</i>
<i>Fuel Type</i>	<i>Diesel</i>
<i>Fuel Consumption</i>	<i>255g / kWh</i>
<i>Starting System</i>	<i>Electric & Recoil</i>
<i>Battery</i>	<i>12V AGM</i>

Alternator

<i>Make</i>	<i>HGI</i>
<i>Voltage</i>	<i>Nominal 57.6Vdc.</i>
<i>Rated Output</i>	<i>5kW (1 hour in 10)</i>
<i>Bearings</i>	<i>Single</i>
<i>Poles</i>	<i>8</i>
<i>Insulation Class</i>	<i>H</i>
<i>IP Rating</i>	<i>23</i>



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- ◆ Small footprint only 820mm (L) x 500mm (W) x 1000mm (H)
- ◆ Ideal for easy installation into a restricted area
- ◆ Canopy can take cooling air from in the cabin or from outside

Canopy

<i>Material</i>	<i>Zintec steel</i>
<i>Paint</i>	<i>Polyester powder coat</i>
<i>Fuel Tank</i>	<i>External</i>
<i>Fuel Tank Capacity</i>	<i>Various</i>
<i>Running Time</i>	<i>To customer requirements</i>
<i>Sound Level</i>	<i>72dBA at 7 metres LWA 97</i>
<i>Access</i>	<i>Doors and panels</i>
<i>Oil Drain</i>	<i>Fitted</i>



- ◆ Easy single sided maintenance access

With the MCD48-5 giving an unprecedented 1000 hrs service interval the set is designed to minimise whole life costs and reduce maintenance demands.

HGI now have over 1200 installations supporting mission critical communications for the UK's emergency services with some units having excess of 18000 operating hours.

While this unit already demonstrates power density unprecedented in air-cooled engine installations, the addition of the LPG option takes HGI further into the rapidly expanding and developing world of green energy solutions.