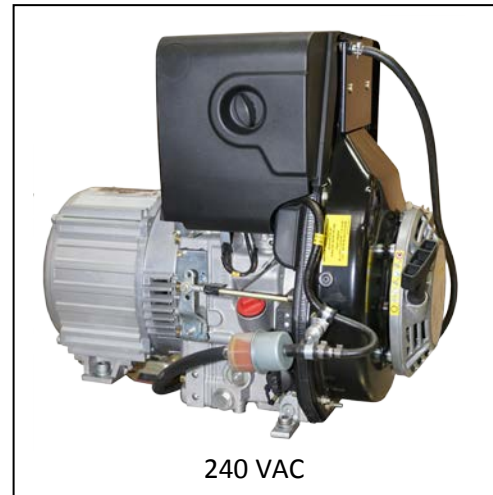


Power Generator Set 5kW – 240 VAC



240 VAC

KEY FEATURES:

- 5kW @ 240VAC
- Pure Sine Wave Output
- Compact & Light Weight
- Low Fuel Consumption
- Low Noise
- Air Cooled

GENERAL PRODUCT DESCRIPTION:

Our latest 5kW, 240 VAC diesel generator utilizes a state of the art Permanent Magnet technology. It provides two independent 2.5kW output powers for AC voltage loads on military vehicles, shelters, tents, and other stationary applications.

The rotor is constructed with embedded magnets and achieves high performance at low weight. The generator naturally regulates and negates the need for AVR

(Automatic Voltage Regulator), diodes, or capacitors.

This 5kW GenSet is part of a generator family which can be made for 50 or 60 Hz frequencies, with 2 or 4 pole motors/engines for high or low speeds. The generator can be wound for Single or Three-Phase power in a Delta or Y configuration.

The output signal is a pure Sine wave voltage with low harmonic

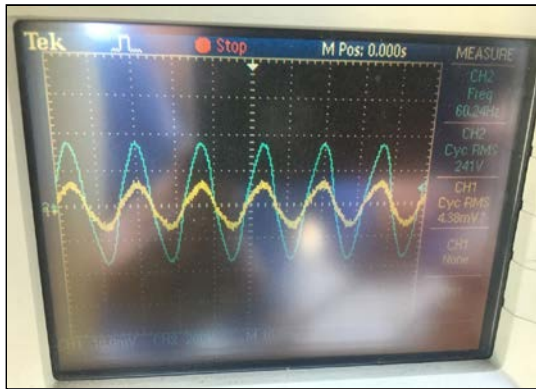
distortion.

The generator is driven by a single cylinder 1B50 Hatz air-cooled diesel engine.

The GenSet can be mounted in an open frame, or an enclosure for lower noise and outdoor operation.

The GenSet speed is mechanically set or controlled with an electronic governor.

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Oscilloscope screenshot of Current, Voltage and Phase
Current = 9A RMS 240 VAC



Overall APU Specifications:

Exterior Dimensions (L x W x H).....	530 x 430 x 515 mm
Gross Weight	100 kg~
Electrical Output.....	2 x 2.5kW at 240 VAC 60 Hz
Engine Type.....	1B50 Hatz Diesel – Single Cylinder Air Cooled
Engine Power.....	8.5kW @3600 rpm
Fuel Type (Diesel).....	JP8, DF-1, DF-2, DF-A, NATO fuels: F-34, F-35, F-44 & F-54
Protection.....	Circuit Breaker 2 x 20 A
Fuel Consumption.....	~ 2 Liter per hour at 3600 RPM

Generator System:

Alternator Type.....	PM Single Phase - 2 Pole
Type of Coupling.....	Flywheel and Single Bearing
Output Voltage (Nominal).....	240 VAC
Alternator Efficiency.....	90%
Power Quality.....	THD < 5%
Voltage Droop.....	<5%
Cooling.....	Shaft Mounted Fan

Operating Parameters:

Temperature	-32 °C to +55 °C
Altitude.....	Sea level to 3,050 m
Sand and Dust.....	Per MIL-STD-810F
EMI.....	Per MIL-STD-461E