

# Product Specifications for 4012-46TWG

<b>Gross Mechanical Output</b>	884-1396 kWm
<b>Typical Electrical Output</b>	989-1600 kVA (791-1280 kWe)
<b>Rated Speed</b>	1500/1800 rpm
<b>Prime</b>	1253-1500 kVA
<b>Standby</b>	1385-1600 kVA
<b>Baseload</b>	989-1079 kVA
<b>Prime</b>	1002-1200 kWe
<b>Standby</b>	1108-1280 kWe
<b>Baseload</b>	791-864 kWe
<b>Emissions</b>	Fuel Optimised
<b>Number of Cylinders</b>	12 Vee
<b>Bore</b>	160 mm
<b>Stroke</b>	190 mm
<b>Displacement</b>	45.8 l
<b>Compression Ratio</b>	13:1/13.6:1

<b>Aspiration</b>	Turbocharged and air-to-water charge cooled
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<b>Combustion System</b>	Direct injection
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<b>Rotation from Flywheel End</b>	Anti-clockwise
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<b>Cooling System</b>	Liquid
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<b>Aftertreatment</b>	-
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<b>Typical Alternator Efficiency</b>	96%
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<b>Switchable</b>	No
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<b>Length</b>	2255 mm
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<b>Width</b>	3714 mm
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<b>Height</b>	1780 mm
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<b>Dry Weight</b>	4400 kg
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<b>Note 1</b>	*Final dimensions dependent on selected options
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<b>Prime Power</b>	Unlimited hours usage with an average load factor of 80% of the published prime power over each 24 hours period. A 10% overload is available for 1 hour in every 12 hours operation.
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<b>Standby Power</b>	Limited to 500 hours annual usage with an average load factor of 80% of the published standby power rating over each 24 hour period. Up to 300 hours of annual usage may be run continuously. No overload is permitted on standby power.
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<b>Baseload</b>	Unlimited hours usage with an average load factor of 100% of the published baseload power. No overload is permitted on baseload power.
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## 4012-46TWG Standard Equipment

### Air inlet system

Mounted air filter and turbochargers

### Cooling system

Powder coated radiator comprising: water radiator; fuel oil cooling (optional); all pipes, hoses and clips; fan; pulleys; fan belts and safety guards

System designed for ambients up to 50°C (122°F)

Two twin thermostats

### Electrical equipment

24 volt starter motor and 24 volt alternator with integral regulator and DC output

Overspeed switch and magnetic pickup

Turbine inlet temperature shutdown switch

Twin high coolant temperate shutdown switches

Twin low oil pressure shutdown switches

### Flywheels and flywheel housing

SAE 00 flywheel housing

SAE J620 size 18 flywheel

## Fuel system

Direct fuel injection system, fuel lift pump

Full flow spin-on fuel oil filters

## Governing

Governing to ISO 8528-5 class G3 with isochronous capability

## Oil system

Engine jacket water/lubricating oil temperature stabiliser

Full flow spin-on oil filters

Wet sump with filler and dipstick