GENTECH
SOUTH AFRICA PTY LTD
POWER SOLUTIONS

**GenTech SA (Pty) Ltd**
010 012 6020
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126 Birch Road, corner Larch Road
Benoni AH, Benoni, 1501

# 300 kVA Deutz PRIME SOUND ATTENUATED CANOPY DIESEL GENERATOR




| | | |
|---|---|---|
| SOUND ATTENUATED | LOAD TESTED | GENTECH SUPPORT |
| SMARTGEN CONTROL | ATS / AMF INCLUDED | AVR REGULATION |

## About Deutz

Deutz industrial diesel engines are used in a broad range of power-generation and industrial applications. GenTech SA configures Deutz-powered generator sets for standby, commercial and industrial requirements around the confirmed engine and site conditions.

GenTech SA configures the 300 kVA Deutz generator with SmartGen automatic control, an AVR-regulated brushless alternator, ATS / automatic mains-failure changeover included as standard, a GenTech canopy-based fuel system and a sound-attenuated enclosure configuration for reliable power in demanding environments.

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# ENGINE SPECIFICATIONS

## Deutz engine – model to be confirmed

### Deutz engine platform

Engine output shown using the Prime Power (PRP) reference for the 300 kVA GenTech build.

| SPECIFICATION | DETAIL |
|---|---|
| **Engine manufacturer** | Deutz |
| **Engine model** | Deutz engine – model to be confirmed |
| **Displacement** | 8.7 L |
| **Cylinder bore / stroke** | 117 x 135 mm |
| **Fuel system** | Fuel injection |
| **Cylinders** | 6 |
| **Cylinder arrangement** | In-line |
| **Engine output @ 1500 rpm** | 245 kW PRP |
| **Aspiration** | Turbo, CAC |
| **Cycle** | 4-stroke diesel |
| **Compression ratio** | 17.5:1 |
| **Fuel tank capacity** | 400 L |
| **Fuel consumption @ 100% load** | 51.57 L/h |
| **Fuel consumption @ 75% load** | 37.98 L/h |
| **Fuel consumption @ 50% load** | 26.0 L/h |
| **Fuel consumption @ 25% load** | 15.2 L/h |
| **Recommended oil type** | 15W-40 |
| **Oil capacity** | 28 L |
| **Cooling method** | Water cooled |
| **Coolant capacity** | 24 L |
| **Starter system** | 24 V, 7.5 kW |
| **Governor system** | Electronic |
| **Engine speed** | 1500 RPM |

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# 1 ALTERNATOR & ELECTRICAL SPECIFICATIONS



| | |
|---|---|
| **Generator output class** | 300 kVA |
| **Standard alternator** | Faraday / Werna or equivalent quality |
| **Premium alternator options** | Mecc Alte / Leroy-Somer - quoted on request |
| **Alternator type** | Brushless |
| **Phase configuration** | Three phase |
| **Rated voltage** | 380–400 V |
| **Rated frequency** | 50 Hz |
| **Speed** | 1500 RPM |
| **Automatic Voltage Regulator** | AVR included |
| **Protection class** | IP23 |

# 2 SMARTGEN CONTROL SYSTEM




The SmartGen automatic controller provides comprehensive monitoring and control of the generator set, including automatic start/stop, protection, alarm indication and operating data display. It is suitable for mains-failure backup and solar-ready applications, supporting reliable and unattended operation.

| | |
|---|---|
| **Controller** | SmartGen automatic generator controller |
| **ATS / automatic changeover** | Included as standard |

# 3 WARRANTY, SERVICE & OPERATING NOTES

| | |
|---|---|
| **Mechanical warranty** | 1 year / 1,000 hours, whichever occurs first, subject to GenTech SA terms and conditions |
| **First service** | 50 hours / 3 months, whichever occurs first |
| **Second service** | 200 hours / 6 months, whichever occurs first |
| **Third service** | 550 hours / 12 months, whichever occurs first |
| **Ongoing service** | Annually or at the applicable engine manufacturer interval, whichever occurs first |

## OPERATING NOTES

Prime Power (PRP) is intended for long-running applications where the electrical load changes. Continuous / Base Load (COP) applies where the generator carries a steady or sustained load. Actual available output can be affected by altitude, ambient temperature, ventilation, power factor and the type of electrical load. Heavy sustained PF 1.0-type loads may require additional generator capacity. Full GenTech SA warranty and operating conditions apply.