GENTECH
SOUTH AFRICA PTY LTD
POWER SOLUTIONS

GenTech SA (Pty) Ltd
010 012 6020
sales@gentechsa.co.za
126 Birch Road, corner Larch Road
Benoni AH, Benoni, 1501

500 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 500 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.

GENTECH
SOUTH AFRICA PTY LTD
POWER SOLUTIONS

GenTech SA (Pty) Ltd
010 012 6020
sales@gentechsa.co.za
126 Birch Road, corner Larch Road
Benoni AH, Benoni, 1501

ENGINE SPECIFICATIONS

Deutz engine – model to be confirmed

Deutz engine platform

Engine output shown using the Prime Power (PRP) reference for the 500 kVA GenTech build.

SPECIFICATION	DETAIL
Engine manufacturer	Deutz
Engine model	Deutz engine – model to be confirmed
Displacement	12.94 L
Cylinder bore / stroke	131 x 160 mm
Fuel system	Fuel injection, common rail
Cylinders	6
Cylinder arrangement	In-line
Engine output @ 1500 rpm	405 kW PRP
Aspiration	Turbo, CAC
Cycle	4-stroke diesel
Compression ratio	19:1
Fuel tank capacity	600 L
Fuel consumption @ 100% load	98.35 L/h
Fuel consumption @ 75% load	73.35 L/h
Fuel consumption @ 50% load	48.92 L/h
Fuel consumption @ 25% load	26.79 L/h
Recommended oil type	15W-40
Oil capacity	30 L
Cooling method	Water cooled
Coolant capacity	55 L
Starter system	24 V, 8.8 kW
Governor system	Electronic
Engine speed	1500 RPM

GENTECH
SOUTH AFRICA PTY LTD
POWER SOLUTIONS

GenTech SA (Pty) Ltd
010 012 6020
sales@gentechsa.co.za
126 Birch Road, corner Larch Road
Benoni AH, Benoni, 1501

1 ALTERNATOR & ELECTRICAL SPECIFICATIONS



Generator output class	500 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.

Product images are representative and specifications may change without notice.