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

650 kVA FAW PRIME SOUND ATTENUATED CANOPY DIESEL GENERATOR



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

About FAWDE

FAWDE (FAW Wuxi Diesel Engine Works) is a long-established diesel-engine manufacturer within the FAW Group. Its engines are widely used in generator, industrial and commercial applications, with a reputation for practical performance, parts support and dependable operation.

GenTech SA configures the 650 kVA FAW 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

CA6DX3-77DG31

FAW

FAW engine platform

Engine output shown using the Prime Power (PRP) reference for the 650 kVA GenTech build.

SPECIFICATION	DETAIL
Engine manufacturer	FAW
Engine model	CA6DX3-77DG31
Displacement	16.25 L
Cylinder bore / stroke	142 × 171 mm
Cylinders	6-cylinder, vertical inline
Engine output @ 1500 rpm	565 kW PRP
Cycle	4-stroke diesel
Fuel tank capacity	700 L
Fuel consumption @ 100% load	85 L/h
Fuel consumption @ 75% load	62 L/h
Fuel consumption @ 50% load	45 L/h
Fuel consumption @ 25% load	35 L/h
Recommended oil type	15W40
Oil capacity	48 L
Cooling method	Water cooled
Coolant capacity	65 L
Starter system	24 V
Governor system	Electronic
Engine speed	1500 RPM

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1 ALTERNATOR & ELECTRICAL SPECIFICATIONS



Generator output class	650 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.