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 Cummins PRIME SOUND ATTENUATED CANOPY DIESEL GENERATOR



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

About Cummins

Cummins diesel engines are widely used in power-generation applications. GenTech SA can configure Cummins-powered generator sets for standby, commercial and industrial requirements with SmartGen control and automatic mains-failure operation.

GenTech SA configures the 300 kVA Cummins 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

CUMMINS 6LTAA9.5-G1

Cummins engine platform

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

SPECIFICATION	DETAIL
Engine manufacturer	Cummins
Engine model	CUMMINS 6LTAA9.5-G1
Displacement	9.5 L
Cylinder bore / stroke	116 × 148 mm
Fuel system	Bosch P7100 mechanical direct injection
Cylinders	6
Cylinder arrangement	In-line
Engine output @ 1500 rpm	290 kW PRP
Aspiration	Turbocharged, air-cooled
Cycle	4-stroke diesel
Compression ratio	Not stated in supplied Cummins sheet
Fuel tank capacity	400 L
Fuel consumption @ 100% load	68 L/h
Fuel consumption @ 75% load	50 L/h
Fuel consumption @ 50% load	34 L/h
Fuel consumption @ 25% load	18 L/h
Recommended oil type	15W40
Oil capacity	32.4 L
Cooling method	Jacket-water aftercooled
Coolant capacity	55.5 L
Starter system	24 V
Governor system	Electronic governor control
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.