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

100 kVA Perkins PRIME SOUND ATTENUATED CANOPY DIESEL GENERATOR



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

About Perkins

Perkins diesel engines are widely used in generator applications around the world. GenTech SA configures Perkins-powered generator sets for standby, commercial and industrial power applications with a focus on dependable operation and long-term serviceability.

GenTech SA configures the 100 kVA Perkins 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

PERKINS 1104A-44TAG2

Perkins®

Perkins engine platform

Engine output shown using the Prime Power (PRP) reference for the 100 kVA GenTech build.

SPECIFICATION	DETAIL
Engine manufacturer	Perkins
Engine model	PERKINS 1104A-44TAG2
Displacement	4.4 litre
Cylinder bore / stroke	105mm x 127mm
Fuel system	Rotary type pump
Cylinders	4
Cylinder arrangement	Vertical Inline
Engine output @ 1500 rpm	99.5 kW PRP
Aspiration	Normally Aspirated
Cycle	4 Stroke
Combustion system	Direct injection
Compression ratio	18.2:1
Fuel tank capacity	300 L
Fuel consumption @ 100% load	24.9 L/H
Fuel consumption @ 75% load	22.6 L/H
Fuel consumption @ 50% load	17.1 L/H
Fuel consumption @ 25% load	11.2 L/H
Recommended oil type	15W40
Oil capacity	8.0 Liter
Cooling method	Watercooled
Coolant capacity	13.0 Litre
Starter system	12 volt
Governor system	Electronic
Engine speed	1500 RPM

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1 ALTERNATOR & ELECTRICAL SPECIFICATIONS



Generator output class	100 kVA
Standard alternator	VOLTAZZ
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.