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

180 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 180 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 1106A-70TAG3

Perkins®

Perkins engine platform

Engine output shown using the Prime Power (PRP) reference for the 180 kVA GenTech build.

SPECIFICATION	DETAIL
Engine manufacturer	Perkins
Engine model	PERKINS 1106A-70TAG3
Displacement	7.01 litre
Cylinder bore / stroke	105mm x 135mm
Fuel system	Rotary type pump
Cylinders	6
Cylinder arrangement	Vertical Inline
Engine output @ 1500 rpm	157.7 kW PRP
Aspiration	Normally Aspirated
Cycle	4 Stroke
Combustion system	Direct injection
Compression ratio	16:1
Fuel tank capacity	450 Litres
Fuel consumption @ 100% load	41.6 L/H
Fuel consumption @ 75% load	31.8 L/H
Fuel consumption @ 50% load	20.1 L/H
Fuel consumption @ 25% load	10.8 L/H
Recommended oil type	15W40
Oil capacity	16.5 Liter
Cooling method	Watercooled
Coolant capacity	21 Liter
Starter system	12 volt
Governor system	Electronic
Engine speed	1500 RPM

Product images are representative and specifications may change without notice.

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1 ALTERNATOR & ELECTRICAL SPECIFICATIONS



Generator output class	180 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.

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