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 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 650 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 2806A-E18TAG2

Perkins®

Perkins engine platform

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

SPECIFICATION	DETAIL
Engine manufacturer	Perkins
Engine model	PERKINS 2806A-E18TAG2
Displacement	18.1 litre
Cylinder bore / stroke	145mm x 183mm
Cylinders	6
Cylinder arrangement	Vertical inline
Engine output @ 1500 rpm	520 kW PRP
Cycle	4-stroke diesel
Fuel tank capacity	700 L
Fuel consumption @ 100% load	127 L/h
Fuel consumption @ 75% load	94 L/h
Fuel consumption @ 50% load	65 L/h
Fuel consumption @ 25% load	32 L/h
Recommended oil type	15W40
Oil capacity	62 litres
Cooling method	Water cooled
Coolant capacity	61 litres
Starter system	24 V
Governor system	ECM
Engine speed	1500 RPM

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1 ALTERNATOR & ELECTRICAL SPECIFICATIONS



Generator output class	650 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.