

500 kVA Scania PRIME SOUND ATTENUATED CANOPY DIESEL GENERATOR



About Scania

Scania industrial engines are designed for demanding heavy-duty applications. GenTech SA uses Scania engine platforms in higher-capacity generator solutions for industrial, commercial and infrastructure power requirements.

GenTech SA configures the 500 kVA Scania 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.

ENGINE SPECIFICATIONS

SCANIA DC16 093A (02-51)



Scania engine platform

Engine output shown using the Prime Power (PRP) reference for the 500 kVA GenTech build.

SPECIFICATION	DETAIL
Engine manufacturer	Scania
Engine model	SCANIA DC16 093A (02-51)
Displacement	16.4 L
Cylinder bore / stroke	130 × 154 mm
Cylinders	90° V8
Engine output @ 1500 rpm	403 kW PRP
Aspiration	Turbocharged
Cycle	4-stroke diesel
Compression ratio	16.7:1
Fuel tank capacity	600 L
Fuel consumption @ 100% load	99.81 L/h
Fuel consumption @ 75% load	75.25 L/h
Fuel consumption @ 50% load	52.02 L/h
Fuel consumption @ 25% load	28.5 L/h
Recommended oil type	15W40
Oil capacity	48 L
Cooling method	Water cooled
Coolant capacity	24 L
Starter system	24 V
Governor system	EMS
Engine speed	1500 RPM

1 ALTERNATOR & ELECTRICAL SPECIFICATIONS



Generator output class	500 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

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.

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