

# TECHKNOL POWER GENERATION



## Scania Generating Set Range

### General Description

This **TPG** range of Scania generating sets has been born out of a new emergence by Scania to provide the already accepted and well-known quality diesel engine with a wider and more global acceptance and a greater variety of applications. **TPG** have put together a comprehensive range of Scania powered product combining the reliability and high performance of the water-cooled diesel range. The outputs available on this range span the key areas in the power generation requirement today on a global scale and **TPG** enhance the Scania quality and reliability with their own professionally finished product.

#### Engine

Naturally aspirated or turbo-charged, water-cooled, multi-cylinder injection Scania diesel engine with mechanical fixed speed governing (electronic governing is optional). All engines supplied with replaceable elements for oil, fuel and air-filter assemblies. An initial fill of high-quality, multi-grade engine oil is included together with a sump oil drain line fitted with an on/off valve.

#### Alternator

TPG utilise the modern technology of brushless self-exciting and self-regulating alternators. Typically, the alternators are built in accordance with BS 5000, VDE 0530, IEC 34, and NEMA regulations. We offer alternators to meet the full classification range and we adopt a technically preferred close-coupled arrangement.

#### Key Start Control Panel

A vibration-isolated sheet-steel panel mounted on the genset contains the following instrumentation:

- AC ammeters
- AC voltmeter and selector switch
- Dual-scale Frequency/RPM meter
- Hours-run counter
- Start/run/stop key switch with LED shutdown and status indicators for low oil pressure, high engine temperature and overspeed.
- Oil pressure/engine temperature gauges/battery-charge indicator
- Fuses, terminations, relays and transformers as appropriate
- Suitably rated moulded-case triple-pole circuit breaker.

#### Fuel Tank

All sets have a daily-service diesel tank, constructed from welded steel plate, integral with the baseframe and fitted with fill, vent, feed and return lines and a contents gauge.

#### Finish & Quality Control

Manufacturers' instruction manuals for both engine and alternator, wiring diagrams, heavy-duty compressed rubber anti-vibration mounts and an industrial exhaust silencer with a one-metre flexible connector accompany each generator set on despatch.

All sets are spray-painted with a quality high-gloss finish, using enamel paint with rust inhibitors to a heavy industrial specification. The base plate is finished in black gloss. Consideration will be given to match clients' own colour scheme.

All **TPG** sets are custom-built in our own factory. Prior to despatch each machine is subjected to rigorous and comprehensive factory inspection procedures and tested under full load. Test certificates will be supplied on request.

#### Typical Optional Extras

- Automatic mains failure control systems
- Synchronising and load sharing
- Remote monitoring systems
- Acoustic/weather-protection enclosures
- ISO containerised sets
- Mobile trailer units



# POWER



# TECH





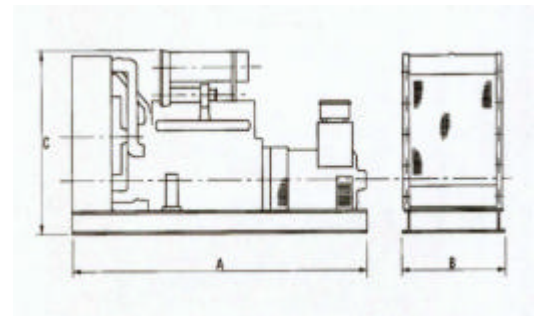
## Generating Sets - SCANIA Engine Range

GENSET - 50 Hz at 1500 RPM					ENGINE DETAILS							APPROXIMATE DIMENSIONS				
Model	PRIME **		EMERGENCY STANDBY		Model	Spec	Type	No. of Cyls.	Arrange. of Cyls. Inline/Vee or Turbo	Cubic Capacity ltrs	Fuel Cons. ltrs/h	Length (A) mm	Width (B) mm	Height (C) mm	Gross Weight Kg	Packed Volume m3
	kVA	kW	kVA	kW												
TPS250	250	200	275	220	DC9-65A 10-93		Turbo	5	Inline	9	52.0	2700	1000	1750	1865	6.40
TPS275	275	220	300	240	DC9-65A 10-94		Turbo	5	Inline	9	58.0	2700	1000	1750	2080	6.40
TPS300	300	240	325	260	DC9-65A 10-95		Turbo	5	Inline	9	64.5	2700	1000	1750	2170	6.40
TPS350	350	280	400	320	DC12-59A 10-32A	*	Turbo	6	Inline	11.7	60.5	2900	1215	1775	2350	8.25
TPS400	400	320	450	360	DC12-59A 10-33A	*	Turbo	6	Inline	11.7	64.6	2900	1215	1775	2460	8.25
TPS450	450	360	500	400	DC12-59A 10-34A	*	Turbo	6	Inline	11.7	69.7	2900	1215	1775	2590	8.25
TPS500	500	400	550	440	DC16-45A 10-26	*	Turbo	8	Vee	15.6	101.0	3000	1400	1825	3175	9.90
TPS550	550	440	600	480	DC16-44A 10-27	*	Turbo	8	Vee	15.6	114.0	3000	1400	1825	3175	9.90

\* Electronic governing fitted as standard

### ADDITIONAL INFORMATION

- 1 All ratings are in accordance with ISO 8528-1 and ISO 3046, BS 5514 and DIN 6271 conditions
- 2 All ratings are based on nominal 400/230V, 3ph, 50Hz
- 3 Ratings are based on Scania supplied test data under NTP ambient conditions
- 4 Fuel consumption figures are based on 100% prime ratings in accordance with Scania published data
- 5 kVA figures are based on a power factor of 0.8
- 6 All sets have a daily-service diesel tank constructed from welded steel plate, integral with the base frame and fitted with fill, vent, feed and return lines and a contents gauge.



The information given in this leaflet is correct at the time of printing to the best of our knowledge. It is to be used as a general guideline. TPG reserve the right to amend details and specifications without notice in line with our policy of continuous product development.