

2000 Series

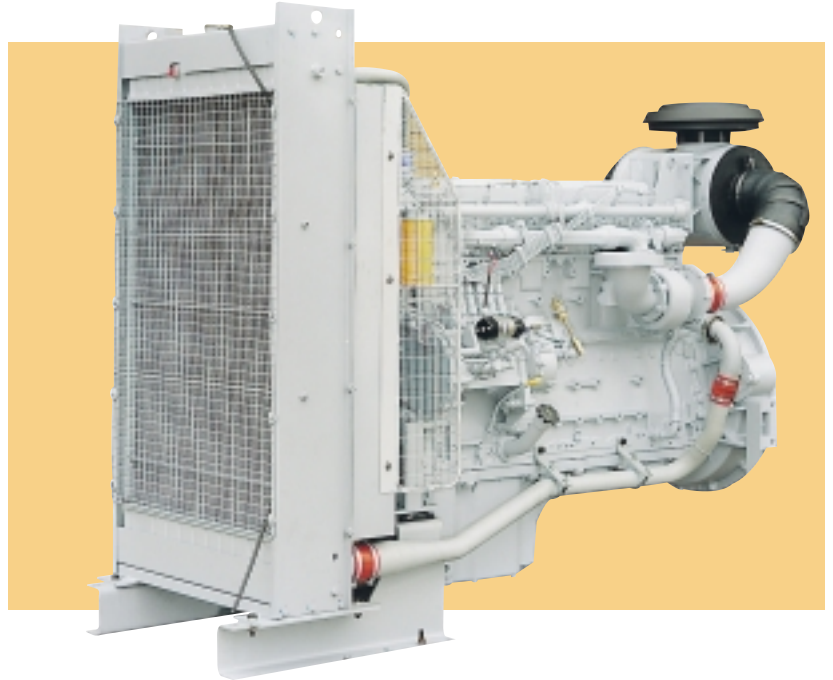
Diesel Engine –
Electropak

The Perkins 2000 Series is a family of well proven 6 cylinder diesel engines designed in advance of today's uncompromising demands within the power generation industry including superior performance and reliability.

The 2006TAG2 is a turbocharged and air-to-air charge cooled 6 cylinder in-line diesel engine. Its premium design and specification features provide economic and durable operation as well as exceptional power to weight ratio, commonality of components, improved serviceability, low gaseous emissions, overall performance and reliability essential to the power generation market.

2006TAG2

335 kWm 1500 rev/min
358 kWm 1800 rev/min



Economic power

- **Helical inlet ports** in monobloc cylinder heads give optimised gas flows. High compression ratios combined with high injection pressures ensure ultra fine fuel atomisation and controlled rapid combustion with low emissions. Commonality of components with other engines in the 2000 Series family for reduced stocking levels.

Reliable power

- **Developed and tested** using latest engineering techniques and finite element analysis for high reliability. Low oil usage and low wear rates. High compression ratios also ensure clean rapid starting in all conditions.
A worldwide network of 4000 distributors and dealers.

Compact, efficient power

- **Exceptional power to weight ratio** and compact size make for easier transportation and installation. Designed to provide excellent service access for ease of maintenance.

Engine Speed rev/min	Type of Operation	Typical Generator Output (Net)		Engine Power			
		kVA	kWe	Gross		Net	
				kW	bhp	kW	bhp
1500	Continuous Baseload	317	254	282	378	276	370
	Prime Power	350	280	310	416	304	408
	Standby (Maximum)	385	308	341	457	335	449
1800	Continuous Baseload	344	275	306	410	296	397
	Prime Power	379	303	336	451	326	437
	Standby (Maximum)	416	333	368	493	358	480

The above ratings represent the engine performance capabilities to conditions specified in ISO 8528/1, ISO 3046/1:1986, BS 5514/1.

Derating may be required – consult Perkins Engines.

Fuel specification: BS 2869 Class 2 or ASTM D975 D2. **Lubricating Oil:** 15W40 to ACEA E3.

Genset Powers are typical and are calculated on an average alternator efficiency, and power factor (cos θ) of 0.8.

Rating Definitions

Continuous Baseload – Power available for continuous full load operation. Overload of 10% permitted for 1 hour in every 12 hours' operation.

Prime Power – Power available at variable load with an average load factor not exceeding 80% of the Prime Power rating. Overload of 10% permitted for 1 hour in every 12 hours' operation.

Standby (Maximum) – Power available at variable load in the event of a main power network failure up to a maximum of 500 hours per year. No overload is permitted.

2000 Series

Standard ElectropaK Specification

Air Inlet

- Mounted air filter

Fuel System

- In-line fuel injection pump with mechanical governor. Governing to ISO 3046/4:1986 (BS 5514/4) Class A1
- Spin-on fuel filter with primary filter/water separator

Lubrication System

- Wet sump with filler and dipstick
- Full-flow 'spin-on' filters; oil cooler incorporated in filter header

Cooling System

- Belt-driven circulating pump
- Mounted belt-driven fan
- Radiator supplied loose incorporating air-to-air charge cooler
- System designed for ambients up to 48°C (non-glycol)

Electrical Equipment

- 24 Volt starter motor and 24 Volt 40 Amp alternator with DC output
- 24 Volt instrument senders/switches for oil pressure, coolant temperature and coolant level
- 24 Volt stop solenoid (energised to run)

Flywheel and Housing

- High inertia flywheel to SAE J620 Size 14
- SAE ½ flywheel housing
- Position for magnetic speed sensor

Mountings

- Front mounting bracket

Literature

- User's Handbook and Parts Manual

Optional Equipment

- Barber-Colman Electric Governor
- 240 Volt/750 Watt immersion heater
- Hours Counter
- Electric Tachometer with speed sensor
- Radiator mounting



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All information in this document is substantially correct at the time of printing but may be altered subsequently by the company.

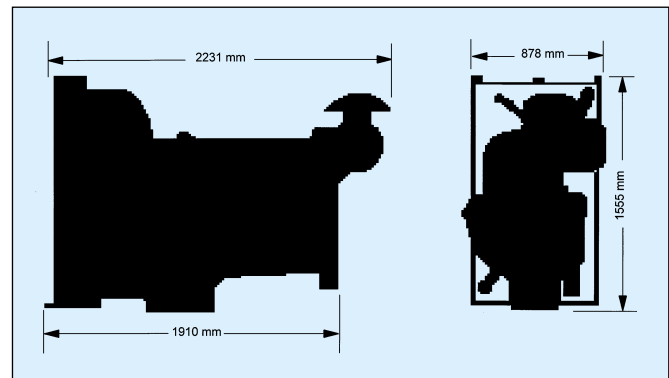
2006TAG2

General Data

Number of cylinders	6
Cylinder arrangement	Vertical in line
Cycle	4-stroke
Induction system	Turbocharged and air-to-air charge cooled
Combustion system	Direct injection
Cooling system	Water-cooled
Bore and stroke	130.2 x 152.4 mm
Displacement	12.17 litres
Compression ratio	15.9:1
Direction of rotation	Anti-clockwise viewed on flywheel
Firing order	1, 4, 2, 6, 3, 5
Total lubrication system capacity	40.8 litres
Total coolant capacity	47.7 litres
Dry weight (ElectropaK)	1365 kg
Length	2231 mm
Width	878 mm
Height	1555 mm

Fuel Consumption

Engine speed	1500 rev/min		1800 rev/min	
	g/kWh	l/hr	g/kWh	l/hr
At Standby Maximum rating	209	83.4	222	94.6
At Prime Power rating	205	74.2	220	85.4
At Baseload rating	202	66.4	218	76.8
At 75% of Prime Power rating	200	54.3	218	63.3
At 50% of Prime Power rating	207	37.5	226	43.9



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