



2500 Series 2506A-E15TAG2

Diesel Engine – ElectropaK Non-Emissions compliant

478 kWm at 1500 rpm 490 kWm at 1800 rpm



 Mechanically operated unit fuel injectors with advanced electronic control, combined with carefully matched turbocharging, give excellent fuel atomisation which leads to exceptional low fuel consumption.

Reliable Power

- Developed and tested using the latest engineering techniques and finite element analysis for high reliability.
- Low oil usage and low wear rates.
- High compression ratio ensures clean rapid starting in all conditions.
- Support comes from a worldwide network of 4,000 distributors and dealers.

Compact, Clean and Efficient Power

- Exceptional power to weight ratio and compact size gives optimum power density for ease of installation and more cost effective transportation.
- Designed to provide excellent service access for ease of maintenance.

The 2500 Series engine has been

developed using the latest engineering techniques and builds on the strengths of the already very successful 2000 Series family and addresses today's uncompromising demands within the power generation industry. Developed from a proven heavy-duty industrial base these products offer superior performance and reliability.

The 2506A-E15TAG2 is a turbocharged and air-to-air charge-cooled, 6 cylinder diesel engine. Its premium features provide exceptional power-to-weight ratio resulting in exceptional fuel consumption.

The overall performance and reliability characteristics make this the prime choice for today's power generation industry.

This engine does not comply with harmonized international regulated emissions limits.

Engine Speed (rev/min)	Type of Operation	Typical Generator Output (Net)		Engine Power			
				Gross		Net	
		kVA	kWe	kWm	bhp	kWm	bhp
1500	Baseload power*	400	320	363	487	348	466
	Prime power Standby power	500 550	400 440	451 495	605 664	435 478	583 641
1800	Baseload power*	-	-	16	21	-	-
	Prime power	500	400	458	615	435	583
	Standby power	563	450	514	689	490	657

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 for conditions outside these; consult Perkins Engines Company Limited. Generator powers are typical and are based on an average alternator efficiency and a power factor (cos. 0) of 0.8. Fuel specification: BS 2869: Part 2 1998 Class A2 or ASTM D975 D2. Lubricating oil: 15W40 to API Cl4. Rating Definitions

Baseload Power: 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 a load factor not exceeding 80% of the prime power rating. Overload of 10% is permitted for 1 hour in every 12 hours' operation.

Standby Power: Power available in the event of a main power network failure up to a maximum of 500 hours per year of which up to 300 hours may be run continuously. Load factor may be up to 100% of standby power. No overload is permitted.

^{*} Baseload ratings indicated are under development and will be available later.

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Standard ElectropaK Specification

Air inlet

Mounted air filter

Fuel system

- Mechanically actuated electronically controlled unit fuel injectors with full authority electronic control
- Governing to ISO 8528-5 class G3 with isochronous capability
- Replaceable 'Ecoplus' fuel filter elements with primary filter/water separator
- Fuel cooler

Lubrication system

- Wet sump with filler and dipstick
- Full-flow replaceable 'Ecoplus' filter
- Oil cooler integral with filter header

Cooling system

- Gear-driven circulating pump
- Mounted belt-driven fan
- Radiator supplied loose incorporating air-to-air charge cooler
- System designed for ambients up to 50°C

Electrical equipment

- 24 volt starter motor and 24 volt 70 amp alternator with DC output
- ECM mounted on engine with wiring looms and sensors
- 3 level engine protection system

Flywheel and housing

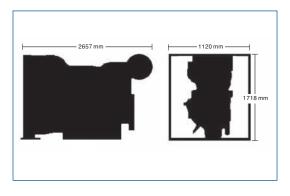
- High inertia flywheel to SAE J620 size 14
- SAE 1/2 flywheel housing

Mountinas

Front engine mounting bracket

Optional Equipment

- 110 volt/240 volt immersion heater
- Additional speed sensor
- Temperature and pressure sensors for gauges
- Air filter rain hood
- Twin starters/facility for second starter
- Tool kit
- Additional manuals
- Closed circuit crankcase ventilation system



Fuel Consumption									
Engine Speed	1500 r	ev/min	1800 rev/min						
Lingine Speed	g/kWh	l/hr	g/kWh	l/hr					
Standby	200	111	204	116					
Prime power	199	100	203	102					
75% of prime power	201	76	206	78					
50% of prime power	211	53	212	53					

General Data

Number of cylinders

Cylinder arrangement Vertical in-line Cycle 4 stroke

Induction system Turbocharged and air-to-

air charge cooled Direct injection

Combustion system Cooling system Water-cooled Bore and stroke 137 mm x 171 mm Displacement 15.2 litres

Compression ratio

Direction of rotation Anti-clockwise, viewed

on flywheel

Total lubrication system

capacity

Total coolant capacity

Dimensions

62 litres 58 litres

Length 2657 mm Width 1120 mm Height 1718 mm

Dry weight (ElectropaK) 1,633 kg

Final weight and dimensions will depend on completed specification



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