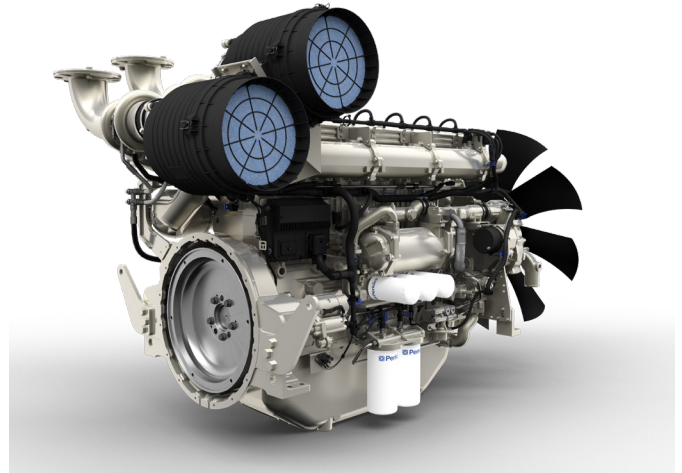


# 4000 Series 4006D-E23TAG2 Diesel Engine – ElectropaK

668 kWm @ 1500 rpm gross prime power

Perkins are pleased to introduce its first electronic engine to the Perkins® 4000 Series family. The 4006 electronic engine is designed specifically to produce lower emissions and provide competitive performance at the same time. This Tier 3 emissions capable engine meets the electric power industry's growing demand for greener power along with superior performance and reliability.

The 4006D-E23TAG2 is a turbocharged and air-to-air charge cooled, 6 cylinder diesel engine with full electronic control enabling lower emissions, easy diagnostic capability. This engine also offers world leading load acceptance and ambient de-rate capability. Along with exceptional power to weight ratio, this engine also benefits from low cost of ownership and long service intervals; all characteristics essential to the power generation market.



Designed to meet India CPCB II emissions standards

Specification		
Number of cylinders	6 vertical in-line	
Bore and stroke	160 x 190 mm	6.3 x 7.5 in
Displacement	22.921 litres	1397 in <sup>3</sup>
Aspiration	Turbocharged and air-to-air charge cooled	
Cycle	4 stroke	
Combustion system	Direct injection	
Compression ratio	12.8:1	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	113.4 litres	29.5 US gal
Cooling system	Water-cooled	
Total coolant capacity with radiator	120 litres	31.7 US gal

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 **Perkins®**

THE HEART OF EVERY GREAT MACHINE

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668 kWm @ 1500 rpm gross prime power

## Features and benefits

### Dependable power

- Individual 4 valve cylinder heads giving optimised gas flows
- Unit fuel injectors ensure ultra fine fuel atomisation and hence controlled rapid combustion
- Commonality of components with other engines in the 4000 Series family for reduced stocking levels
- Designed to meet India CPCB II emissions standards

### Low operating costs

- Oil change service intervals are set at 300 hours as standard
- Designed to provide low cost of ownership, simple maintenance and reduced downtime
- Class leading warranty  
Prime power - 12 months unlimited hours. For engines that operate less than 6,000 hours the warranty is available for two years or until the application reaches 6,000 hours (whichever is sooner).  
Standby power - three years or 1,500 hours (whichever is sooner).  
See Perkins Warranty Policy for further details
- Perkins Platinum Protection - comprehensive cover from as little as 5 percent\* of the cost of your engine  
Talk to your local distributor or visit [www.perkins.com/platinum-protection](http://www.perkins.com/platinum-protection) for more details

### World class product support

- Our experienced global network of distributors and dealers, fully trained engine experts deliver total service support around the clock, 365 days a year. They have a comprehensive suite of web based tools at their disposal, covering technical information, parts identification and ordering systems, all dedicated to maximising the productivity of your engine
- Perkins actively pursues product support excellence by insisting our distribution network invest in their territory to provide customers with a consistent quality of support across the globe
- Throughout the entire life of a Perkins engine, we provide access to genuine parts giving 100% reassurance that you receive the very best in terms of quality for lowest possible cost, wherever your Perkins powered machine is operating in the world  
To find your local distributor: [www.perkins.com/distributor](http://www.perkins.com/distributor)

\*Terms and conditions apply

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THE HEART OF EVERY GREAT MACHINE

# 4000 Series 4006D-E23TAG2 Diesel Engine – Electropak

668 kWm @ 1500 rpm gross prime power

## Technical information

### Air inlet system

- Mounted air filter and turbocharger

### Fuel system

- Governing to ISO 8528-5 Class G3 with isochronous capability
- Full flow spin-on filters
- Mechanically actuated electronically controlled unit fuel injectors with full authority electronic control

### Lubrication system

- Wet sump with filler and dipstick
- Full flow spin-on oil filters

### Cooling system

- Twin thermostats, water pump
- System designed for ambient temperatures up to 50°C
- Radiator supplied loose incorporating air-to-air charge cooler

### Electrical equipment

- 24V starter motor, 24V alternator with integral regulator and DC output
- High coolant temperature monitored through ECM
- Low oil pressure monitored through ECM

### Flywheel and housing

- Flywheel to SAE J620 size 18
- SAE 'O' flywheel housing

### Optional equipment

- Secondary electric start
- Immersion heater
- Exhaust counter flanges
- Single exhaust outlet pipe

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THE HEART OF EVERY GREAT MACHINE

# 4000 Series 4006D-E23TAG2 Diesel Engine – ElectropaK

668 kWm @ 1500 rpm gross prime power

Engine package weights and dimensions		
Length	2730 mm	108 in
Width	1690 mm	67 in
Height	2126 mm	84 in

Speed rpm	Type of operation	Typical generator output (Net)		Engine power			
				Gross		Net	
		kVA	kWe	kWm	hp	kWm	hp
1500	Prime power	750	600	668	702	638	855
	Standby power	825	660	732	981	702	941

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.  $\theta$ ) of 0.8. **Fuel specification:** IS 1460:2005: Part 2 1998 Class A2 or ASTM D975 D2. **Lubricating oil:** 15W40 to API CI4. Perkins® Diesel Engine Oil is recommended.

#### Rating definitions

**Prime power:** Power available at variable load with a load factor not exceeding 80% of the prime power rating. There is no overload permitted on baseload power. **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.

Percent of prime power	Fuel consumption at 1500 rpm g/kWh
Standby power	205
Prime power	212
75%	221
50%	227

Fuel consumption data is based on a specific gravity of 0.85.

Fuel consumption tolerance +5%

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