

# 2000 Series 2206F-E13TAG2 Diesel Engine – Electropak

351 kWm @ 1500 rpm  
421 kWm @ 1800 rpm

Building on its already strong EPA Tier 4 electric power range, Perkins is pleased to announce the addition of the Tier 4 Final certified 2206 Electropak.

The Perkins® 2000 Series is a family of well-proven 6 cylinder 13, 15, and 18 litre diesel engines, designed to address today's uncompromising demands within the power generation industry for both prime and standby applications.

Both the engine and the after-treatment share a common core and strong heritage with on-highway truck and heavy duty construction engines, offering superior performance and reliability.

Perkins trusted performance, borne out of thousands of hours of validation in the real world, has made it the engine of choice in the power generation market.

The 2206F-E13TAG2 is a turbo charged and air-to-air charge cooled 6 cylinder diesel engine of 12.5 litres displacement. Its premium features provide economic and durable operation, low gaseous emissions and advanced overall performance and reliability.



Specification		
Number of cylinders	6 vertical in-line	
Bore and stroke	130 x 157 mm	5.1 x 6.1 in
Displacement	12.5 litres	763 in <sup>3</sup>
Aspiration	Turbocharged and air-to-air chargecooled	
Cycle	4 stroke	
Combustion system	Electronic unit injection	
Compression ratio	17:1	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	41 litres	10.8 US gal
Cooling system	Water-cooled	
Total coolant capacity	38 litres	10 US gal

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 **Perkins®**

THE HEART OF EVERY GREAT MACHINE

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## Features and benefits

### Economic power

- Mechanically operated unit fuel injectors with electronic control combined with carefully matched turbocharging, provide excellent fuel economy and low emissions.

### 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 ratios ensure clean rapid starting in all conditions
- Perkins global product support is designed to enhance the customer experience of owning a Perkins powered machine. We deliver this through the quality of our distribution network, extensive global coverage and a range of Perkins supported OEM partnership options. So whether you are an end-user or an equipment manufacturer our engine expertise is essential to your success

### Compact, clean and efficient power

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

### Product support

- Perkins actively pursues product support excellence by ensuring our distribution network invest in their territory – strengthening relationships and providing more value to you, our customer
- Through an 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 fingertips covering technical information, parts identification and ordering systems, all dedicated to maximising the productivity of your engine
- Throughout the entire life of a Perkins engine, we provide access to genuine OE specification parts and service. We give 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

Certified against the requirements of U.S. EPA Tier 4 Final legislation for non-road mobile machinery, powered by constant speed engines.

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## Technical information

### 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 G2 with isochronous capability
- Replaceable spin on fuel filter elements with primary filter/water separator
- Fuel cooler

### Lubrication system

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

### Cooling system

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

### Electrical equipment

- 24 volt starter motor and 24 volt 115 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 flywheel housing

### Mountings

- Front engine mounting bracket

### Literature

- User's Handbook and Parts Manual

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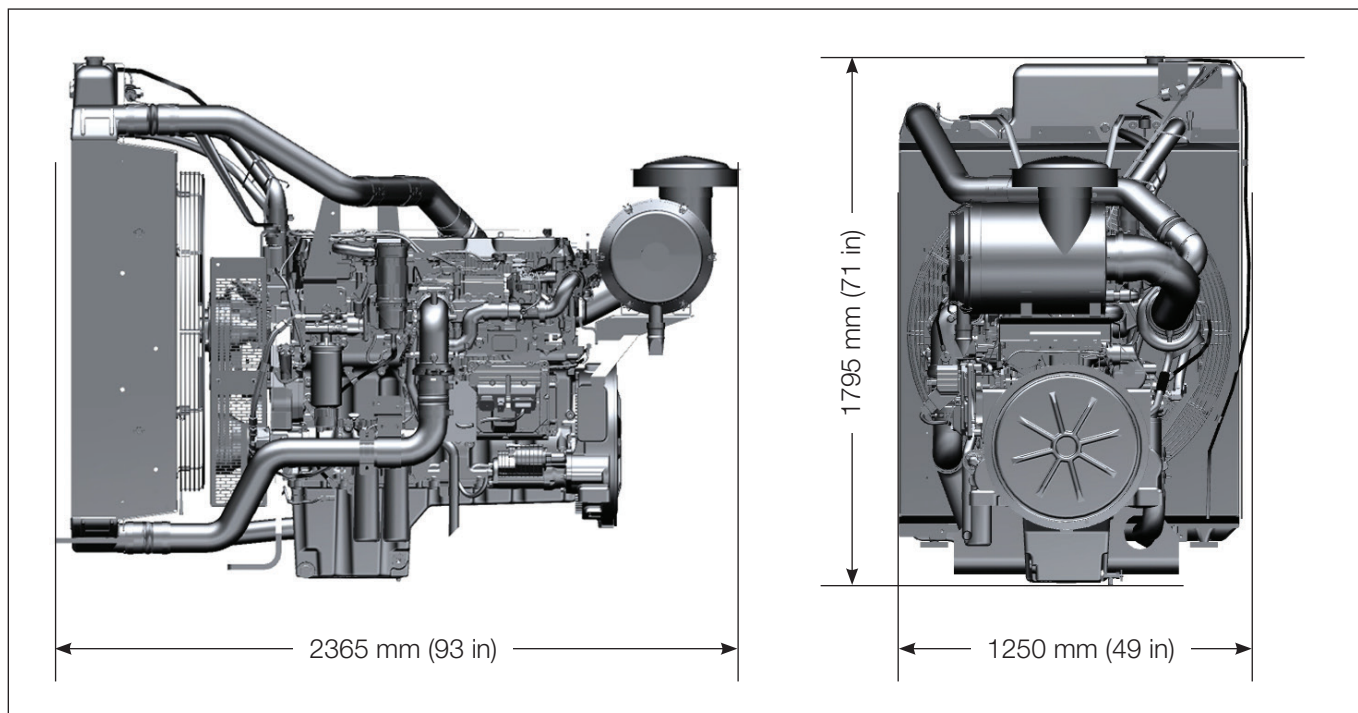
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Engine package dimensions and weight

Length	2365 mm	93 in
Width	1250 mm	49 in
Height	1795 mm	71 in
Weight	1450 kg	3197 lb

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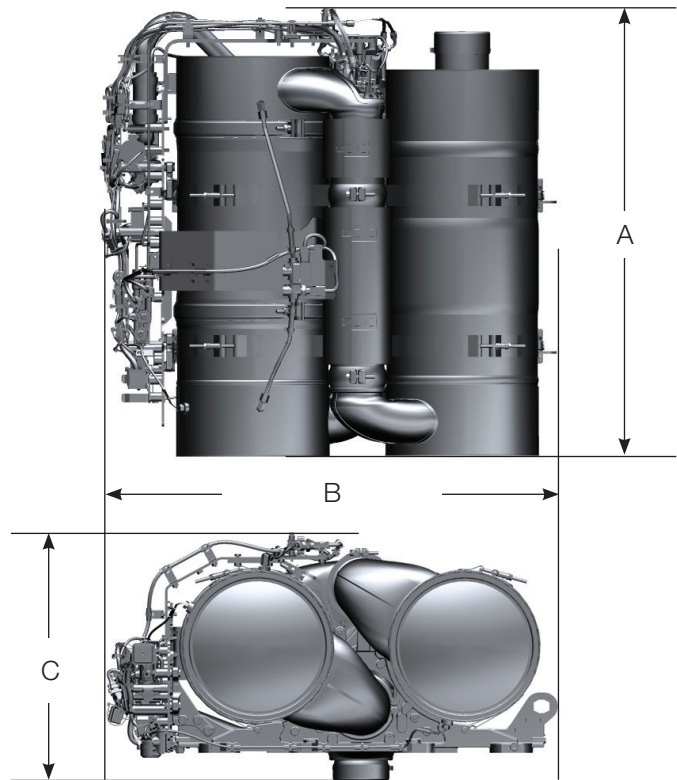
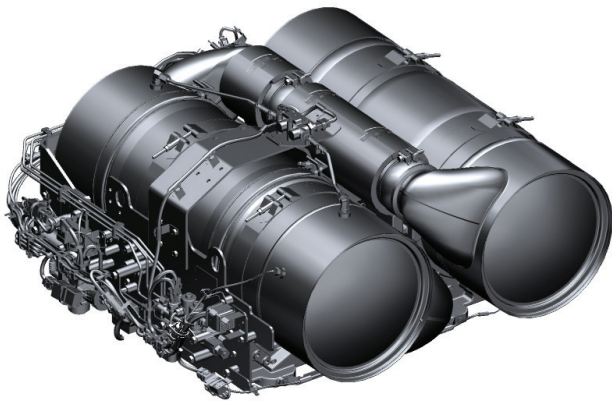
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A	1066 mm	42 in
B	1077 mm	42.4 in
C	591 mm	23 in
Weight	256 kg	564 lb

## Aftertreatment

- CEM – Clean Emissions Module
- Basic aftertreatment package includes DOC / DPF / SCR
- DOC – Diesel Oxidation Catalyst
- DPF – Diesel Particulate Filter
- SCR - Selective Catalytic Reduction

## Technology

The DPF technology chosen is a wall flow filter configuration. This enables the engine to be optimised for superior performance and low fuel consumption.

## Power

Using our advanced research and development techniques, we have perfectly matched the aftertreatment to the engine. The engine performance has then been optimised to give the maximum power and in normal operation, the regeneration is invisible to the operator.

## Regeneration

Transparent Regeneration system means no machine downtime, no operator intervention, and maximized fuel efficiency during DPF regeneration.

## Mounting

Remote and engine-mounted installation options provide OEM flexibility for many applications.

## Service

Aftertreatment designed to be service-free.

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Speed rpm	Type of operation	Typical generator output (Net)		Engine power			
				Gross		Net	
		kVA	kWe	kWm	hp	kWm	hp
1500	Prime power	360	288	317	425	304	408
	Standby power	400	320	351	471	338	453
1800	Prime power	425	340	384	515	358	480
	Standby power	469	375	421	565	395	530

The above ratings represent the engine performance capabilities to conditions specified in ISO 8528/1, ISO 3046/1:1986, BS 5514/1, DIN 6271. 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: BS 2869: Part 2 1998 Class A2 or BSEN590 or ASTM D975 Class 1D and 2D. Lubricating oil: 15W40 to API CI4.

#### Rating definitions

**Prime power:** Variable load. Unlimited hours usage with an average load factor of 70% of the published prime power rating over each 24 hour period. A 10% overload is available for 1 hour in every 12 hours of operation. **Standby power:** Variable load. Limited to 500 hours annual usage up to 300 hours of which may be continuous running. No overload is permitted.

Percent of prime power	Fuel consumption 50 Hz at 1500 rpm		Fuel consumption 60 Hz at 1800 rpm	
	g/kWh	l/hr	g/kWh	l/hr
Standby	208	87	214	108
Prime	206	78	210.8	97
75% Prime	205	59	209.2	73
50% Prime	207	41	214.3	52

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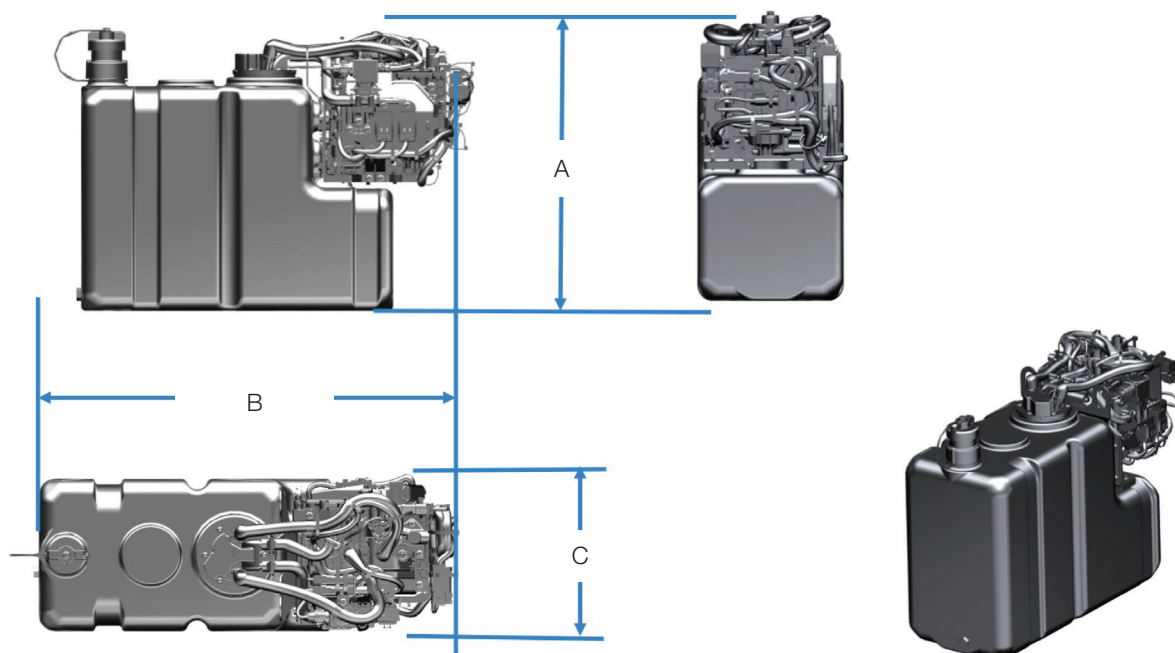
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Dimensions - standard 44.5 litre (11.6 US gal) tank		
A	556.2 mm	21.9 in
B	775.3 mm	30.5 in
C	280 mm	11 in

Note:

- 60 Hz: Up to 23 hours of running time at 75% of prime rating and 21 hours at 75% of standby rating
- 50Hz: Up to 29 hours of running time at 75% of prime rating and 26 hours at 75% of standby rating

Dimensions - optional 93.7 litre (24.7 US gal) tank		
A	567.8 mm	22.3 in
B	919.7 mm	36.2 in
C	485 mm	19.1 in

Note:

- 60 Hz: Up to 49 hours of running time at 75% of prime rating and 45 hours at 75% of standby rating
- 50Hz: Up to 61 hours of running time at 75% of prime rating and 56 hours at 75% of standby rating

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