

# 1100 Series 1104C-44G2 Diesel Engine – Electropak

47 kWm (63 hp) net prime power @ 1800 rpm  
 52 kWm (70 hp) net standby power @ 1800 rpm

Building upon Perkins proven reputation within the power generation industry, the 1100 Series range of Electropak engines now fit even closer to the needs of their customers.

In the world of power generation today, success is only gained by providing more for less. Therefore with the 1104C-44G1 unit, Perkins has engineered for its customers even higher levels of reliability, yet lowered the cost of ownership. Crucially, bare engine noise is lower than ever before.

Rapid starting and pick-up are naturally built in especially for cold operation, but where legislation or local markets demand an emissions capability, the engine is designed to comply with TA Luft (1986) regulations.

1100 Series see the marriage of technology to customer need. A 4.4 litre unit very quietly setting the standard in prime and standby power supply for the power generation industry.



Specification		
Number of cylinders	4 vertical in-line	
Bore and stroke	105 x 127 mm	4.1 x 5.0 in
Displacement	4.41 litres	269 in <sup>3</sup>
Aspiration	Naturally aspirated	
Cycle	4 stroke	
Combustion system	Direct injection	
Compression ratio	19.3:1	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	7 litres	2 US gal
Cooling system	Water-cooled	
Total coolant capacity	12.8 litres	3.4 US gal

[www.perkins.com](http://www.perkins.com)

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 All information in this document is substantially correct at time of printing and may be altered subsequently.  
 Final weight and dimensions will depend on completed specification.

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THE HEART OF EVERY GREAT MACHINE

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## Features and benefits

### Powered by your needs

- The Perkins® 1100 Series family was developed following an intensive period of customer research. The cylinder blocks ensure bore roundness is maintained under the pressures of operation, as well as significantly reducing mechanical and combustion noise. A cross-flow cylinder head design optimises combustion control, and combines with turbocharger and chargecooler technology to achieve the best combination of power delivery and low exhaust emissions

### Cleaner, quieter power

- The refined structure of the 1100C range leads to an exceptionally low noise signature. To meet environmental needs swirl conditioned air is delivered through the new cross-flow cylinder head, and burns cleanly with the high pressure fuel from an advanced technology rotary pump.

### Lower operating costs

- The compact packaging and low noise performance of the 1100C range bring clear benefits to the genset packager
- Service intervals are set at 500 hours as standard

#### Warranties and Service Contracts

We provide one-year warranties for constant speed engines and two-year warranties for variable speed models, as standard. These are supported by multilevel Extended Service Contracts that can be bought additionally

Discover more: [www.perkins.esc](http://www.perkins.esc)

- Low usage warranty package is also available

### 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
- To find your local distributor: [www.perkins.com/distributor](http://www.perkins.com/distributor)

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## Technical information

### Air inlet

- Mounted air filter

### Fuel system

- Rotary type pump
- Ecoplus fuel filter

### Lubrication system

- Wet cast iron sump with filler and dipstick
- Spin-on oil filter

### Cooling system

- Thermostatically-controlled system with gear-driven circulation pump and belt-driven pusher fan
- Mounted radiator and piping

### Electrical equipment

- 12 volt starter motor and 12 volt 65 amp alternator with DC output
- 12 volt shutdown solenoid energised to run

### Flywheel and housing

- Flywheel to SAE J620 size 10/11½
- SAE 3 flywheel housing

### Starting aids

- Glow plugs

### Literature

- User's Handbook

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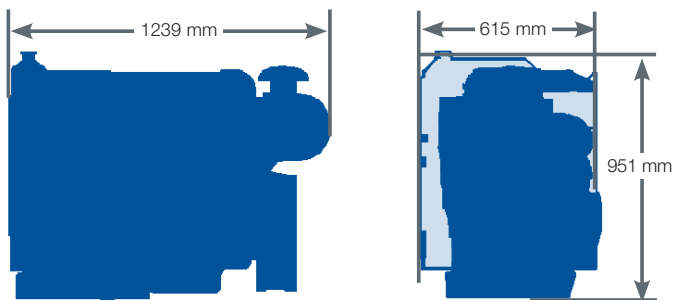
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Engine package weights and dimensions

Length	1162 mm	46 in
Width	622 mm	24 in
Height	951 mm	37 in
Weight (dry)	386 kg	851 lb

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Speed rpm	Type of operation	Typical generator output (Net)		Engine power			
				Gross		Net	
		kVA	kWe	kWm	hp	kWm	hp
1800	Prime power	53.2	42.6	49	66	47	63
	Standby power	58.8	47.1	54	72	52	70

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 typical alternator efficiencies and a power factor of 0.8. **Fuel specification:** BS 2869 Class 2 or ASTM D975 D2. **Lubricating oil:** API CH4/ACEA E5.

#### Rating definitions

**Prime power:** Power available at variable load in lieu of a main power network. Overload of 10% permitted for 1 hour in every 12 hours operation.

**Standby power:** Power: available at variable load in the event of a main power network failure. Maximum use 500 hours per year. No overload is permitted.

Percent of prime power	Fuel consumption at 1800 rpm l/hr
Standby power	13.4
Prime power	12.1
75%	9.2
50%	6.5

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