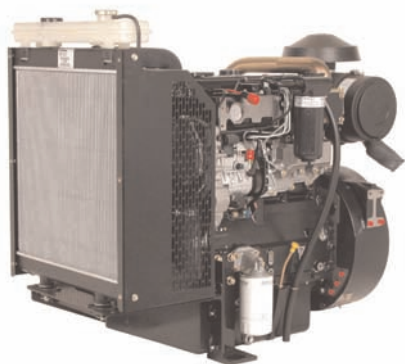


1100 Series

1104C-44TG1

Diesel Engine - Electropak

68 kWm 1800 rev/min



Compact and Efficient Power

The Perkins 1100 Series family was developed following an intensive period of customer research. The 3.3 and 4.4 litre engines feature new cylinder blocks which ensure bore roundness is maintained under the pressures of operation, as well as significantly reducing mechanical and combustion noise. A new cross-flow cylinder head design optimises combustion control, and combines with turbocharger and charge cooler technology to achieve the best combination of power delivery and low exhaust emissions.

Cleaner and 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.

Quality by Design

Class A manufacturing improvements ensure that product reliability meets the high standards demanded by customers. Product design is focused on maintaining Perkins legendary reputation for durability.

Cost Effective Power

The compact packaging and low noise performance of the 1100C range bring clear benefits to the Genset packager. Low cost of operation is assured by lower fuel and oil consumption, 500 hour service intervals, and the two year warranty.

Product Support

Total worldwide service is provided through a network of 4,000 distributors and dealers. TIPSS - The Integrated Parts and Support System enables customers to specify and order parts electronically as well as service engines with on-line guides and service tools.

Building upon Perkins proven reputation within the power generation industry, the newly introduced 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 this new 1104C-44TG1 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, then the 1104C-44TG1 satisfies US EPA Tier 2 mobile off-highway legislation.

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

Engine Speed rev/min	Type of Operation	Typical Generator Output (Net)		Engine Power			
				Gross		Net	
		kVA	kWe	kWm	bhp	kWm	bhp
1800	Prime power	68	54	63.5	85	61	82
	Standby (maximum)	75	60	70.5	95	68	91

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.

Fuel specification: BS 2869 Class 2 or ASTM D975 D2. Lubricating oil: API CH4/ACEA E5.

Generator powers are typical and are based on typical alternator efficiencies and a power factor (cos φ) of 0.8.

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

All information in this document is substantially correct at time of printing and may be altered subsequently

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1100 Series

1104C-44TG1

Standard ElectropaK Specification

Air inlet

- Mounted air filter

Fuel system

- Rotary type pump
- Ecoplus fuel filter

Lubrication system

- 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
- Glow plug cold start aid

Flywheel and housing

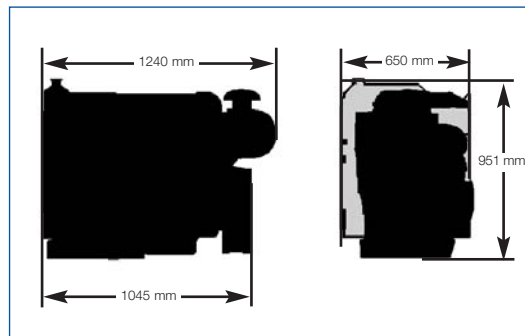
- Flywheel to SAE J620 size 10/11¹/₂
- SAE 3 flywheel housing

Literature

- User's Handbook

Optional equipment

- Workshop manual
- Parts book



Option Groups

A selection of optional items is available to enable the customer to prepare a specification precisely matched to the needs.

General Data

Number of cylinders	4 vertical in-line
Bore and stroke	105 x 127 mm
Displacement	4.41 litres
Aspiration	Turbocharged
Cycle	4 stroke
Combustion system	Direct injection
Compression ratio	18.2:1
Rotation	Anti-clockwise viewed on flywheel
Cooling system	Water-cooled
Total lubrication system capacity	8.5 litres
Total coolant capacity	12.6 litres
Dimensions	Length 1240 mm Width 650 mm Height 951 mm

Final weight and dimensions will depend on completed specification.



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