



# 1100 Series

## 1104A-44TG1

Diesel Engine - ElectropaK



60 kWm at 1500 rpm  
71 kWm at 1800 rpm

[www.TST-CO.com](http://www.TST-CO.com)



### Compact, Efficient Power

- 1100 Series is the result of an intensive period of customer research that has guided the development of the range.
- The new 4.4 litre cylinder block bore roundness is maintained under the pressures of operation. It also ensures combustion and mechanical noise is lowered.
- A new cylinder head has re-established Perkins mastery of air control.

### Quality by Design

- Product design and Class A manufacturing improvements enhance product reliability while maintaining Perkins legendary reputation for durability.

### Cost Effective Power

- Compact size and low noise.
- Lower fuel consumption and oil use.
- 500 hour service intervals.
- 2 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 1100 Series range of ElectropaK engines now fit even closer to customers needs.

In the world of power generation success is only gained by providing more for less. With the 1104A-44TG1 Perkins has engineered even higher levels of reliability, yet lowered the cost of ownership.

1100A units are designed for territories that do not require compliance to EPA or EU emissions legislation. These units are able to meet TA luft legislation.

Engine speed rev/min	Operation Type	Typical Generator Output (Net)		Engine Power			
				Gross		Net	
		kVA	kWe	kWm	bhp	kWm	bhp
1500	Prime Power	65.0	52.0	59.6	79.9	58.4	78.3
	Standby Power	71.5	57.2	65.6	88.0	64.3	86.2
1800	Prime Power	76.0	60.8	70.7	94.8	68.6	92.0
	Standby Power	83.6	66.9	77.8	104.3	75.5	101.2

The above ratings represent the engine performance capabilities to conditions specified in ISO 8528/1, ISO 3046/1:1986, BS5514/1 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.  $\phi$ ) of 0.8  
Fuel specification: BS 2869: Part 2 1998 Class A2 or DIN EN 590  
Lubricating oil: 15W40 to API CG4

#### Rating Definitions

**Prime power:** Variable load. Unlimited hours usage with an average load factor of 80% of the published prime power 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.

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### Standard ElectropaK Specification

#### Air inlet

- Mounted air filter

#### Fuel system

- Rotary type pump
- Ecoplus fuel filter

#### Lubrication system

- Wet 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 housing

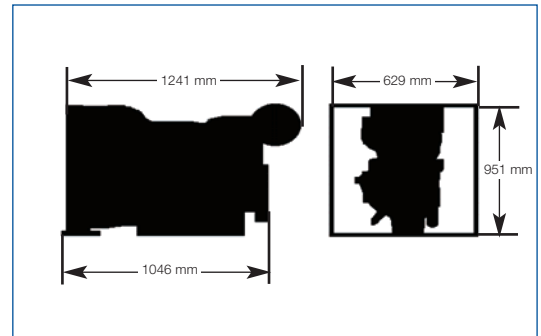
- High inertia flywheel to SAE J620 size 10/11½
- SAE 3 flywheel housing

#### Literature

- User's Handbook

#### Optional equipment

- Woodward electronic governor (LCG2)
- Workshop manual
- Parts book



Engine Speed	Fuel Consumption			
	1500 rev/min		1800 rev/min	
	g/kWh	l/hr	g/kWh	l/hr
At standby power	207	16.2	211	19.5
At prime power	208	14.8	211	17.7
At 75% of prime power	209	11.2	214	13.5
At 50% of prime power	224	8.0	229	9.6

### General Data

Number of cylinders	4 vertical in-line
Bore and stroke	105 x 127 mm
Displacement	4.4 litres
Aspiration	Turbocharged
Cycle	4 stroke
Combustion system	Direct injection
Compression ratio	17.25:1
Rotation	Anti-clockwise viewed from flywheel
Cooling system	Water-cooled
Total lubrication system capacity	8.0 litres
Total coolant capacity	13.0 litres
Dimensions	Length 1241 mm Width 629 mm Height 951 mm
Dry Weight (approx.)	463 kg

Final weight and dimensions will depend on completed specification.



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