



Building upon Perkins proven reputation within the power generation industry, the 1100 Series range of ElectropaK engines now fit even closer to customer's needs.

In the world of power generation success is only gained by providing more for less. With the 1103A-33TG1 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.



# 1100 Series 1103A-33TG1

Diesel Engine - ElectropaK

42 kWm at 1500 rpm 51 kWm at 1800 rpm

# 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 3.3 litre cylinder block ensures 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
- 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.

Engine speed (rev/min)	Type of Operation	Typical generator output (net)		Engine power			
				Gross		Net	
		kVA	kWe	kWm	bhp	kWm	bhp
1500	Prime power	45.0	36.0	42.2	56.6	41.3	55.4
	Standby power	49.6	39.7	46.5	62.4	45.6	61.2
1800	Prime power	53.1	42.5	50.5	67.7	48.9	65.6
	Standby power	58.7	46.9	55.6	74.6	53.9	72.3

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. q) of 0.8

Fuel specification: BS 2869: Part 2 1998 Class A2 or DIN EN 590

Lubricating oil: 15W40 to API CG4

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.

# 1100 Series 1103A-33TG1

# 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

# Flywheel and housing

- High inertia flywheel to SAE J620 Size 10/11<sup>1</sup>/<sub>2</sub>
- SAE 3 flywheel housing

# Mountings

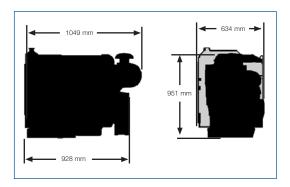
Front engine mounting bracket

#### Literature

User's Handbook

#### Optional equipment

- Workshop manual
- Parts book



Fuel Consumption									
Engine Speed	1500 r	ev/min	1800 rev/min						
Lingine Speed	g/kWh	l/hr	g/kWh	l/hr					
At standby power At prime power	221 215	12.0 10.7	217 215	14.3 12.9					
At 75% of prime power	218	8.2	221	9.9					
At 50% of prime power	227	5.7	235	7.1					

# General Data

Number of cylinders

Bore and stroke

Displacement

Aspiration

Cycle

Combustion system

Compression ratio

3 vertical in-line
105 x 127 mm
3.3 litres
Turbocharged
4 stroke
Direct injection
17.25:1

Rotation Anti Clockwise (view from flywheel)

Cooling system Water-cooled

Total lubrication system

capacity 7.9 litres
Total coolant capacity 10.2 litres
Dimensions Length 104

Length 1049 mm Width 634 mm Height 951 mm

Dry Weight (approx.) 420 kg

Final weight and dimensions will depend on completed specification.



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