

Perkins[®]

1100 Series Diesel Engine - ElectropaK 1103A-33TG1 42 kWm at 1500 rpm

51 kWm at 1800 rpm

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.

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 service and support is provided through a worldwide network of 4000 distributors and service outlets.

Engine speed rev/min	Type of	Typical generator		Engine power			
	Operation	output (net)		Gross		Net	
		kVA	kWe	kWm	bhp	kWm	bhp
1500	Prime power	45	36	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

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.

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 10/111/2 SAE 3 flywheel housing

Mountings Front engine mounting bracket

Literature User's Handbook

Optional Equipment

Workshop manual Parts book

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General Data

Number of Cylinders Cylinder Arrangement Cycle Induction system **Combustion System Cooling System** Bore & Stroke Displacement Compression Ratio **Direction of Rotation Total Lubrication System** Capacity Total Coolant Capacity Length Width Height Dry Weight (approx.)

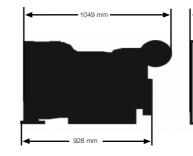
Vertical in-line 4 stroke Turbocharged Direct injection Water-cooled 105 x 127 mm 3.3 litres 17.25:1 Anti Clockwise (view from flywheel) 7.9 litres 10.2 litres 1049 mm

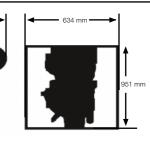
Fuel consumption								
Engine Speed	1500 r	ev/min	1800 rev/min					
	g/kWh	l/hr	g/kWh	l/hr				
At standby power	221	12.0	217	14.3				
At prime power	215	10.7	215	12.9				
At 75% of prime power	218	8.2	221	9.9				
At 50% of prime power	227	5.7	235	7.1				

634 mm

951 mm

420 kg







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