

1000 Series 1006TG1A Diesel Engine – Electropak

92 kWm 1500 rpm
107 kWm 1800 rpm

The Perkins 1000 Series family of Electropak engines are renowned throughout the power generation industry for their superior performance and reliability.

The 1006TG1A is a turbocharged, 6 cylinder, 6 litre engine. Its premium design features provide economic and durable operation offering the ideal characteristics for electrical power generation.

Economic power

- Single side servicing for reduced service time and cost
- Unique Quadram combustion system enables high power output plus low fuel consumption and noise
- Rated speed is changable between 1500 rpm or 1800 rpm allowing standard builds to operate at either 50 Hz or 60 Hz

Clean, efficient power

- Operator and environmentally friendly with low noise, rapid startability and low emissions that satisfy TA Luft requirements

Durable power

- Maximum cooling efficiency is provided by a gear driven water pump and independent fan drive
- Leak free operation is ensured by Viton crankshaft seals and sophisticated controlled swell joints, giving protection in the toughest conditions
- Inserted valve seats, oil spray cooled pistons and compact plate cooler give enhanced engine life

Reliable power

- Suitable for operation in ambient temperatures up to 52°C (46°C if a canopy is fitted)
- Fuelled starting aid for temperatures down to -20°C

Product support

- With highly trained Perkins distributors in thousands of communities in over 180 countries, you are never far away from expert product knowledge, genuine parts and a range of advanced diagnostic technology for keeping your engine in peak condition

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

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Engine Speed (rpm)	Type of Operation	Typical Generator Output (Net)		Engine Power			
				Gross		Net	
		kVA	kWe	kWm	hp	kWm	hp
1500	Prime Power	90	72	85.5	114.5	83	111
	Standby Power	100	80	94.0	126.0	92	123
1800	Prime Power	108	86	100.5	134.5	98	131
	Standby Power	119	95	110.5	148.0	107	143

All ratings data based on operating under ISO/TR 14396/ISO 8528 conditions using typical fan sizes and drive ratios. For operation outside of these conditions please consult your Perkins contact. Performance tolerance quoted by Perkins is $\pm 5\%$. Electrical ratings assume a power factor of 0.8 and a generator efficiency of 90%. Fuel specification: BS 2869 Part 2 1998 Class A2 or ASTM D975 D2. Lubrication oil: A single or multigrade oil to ACEA/E1 E2 or API CD/SD.

Rating Definitions

Prime Power: Power available at variable load in lieu of main power network. An overload of 10% is permitted for 1 hour in every 12 hours of operation.
Standby Power: Power available at variable load in the event of a main power network failure. No overload is permitted.

Photographs are for illustrative purposes only and may not reflect final specification.

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 **Perkins**[®]

THE HEART OF EVERY GREAT MACHINE

1000 Series 1006TG1A Diesel Engine – Electropak

92 kWm 1500 rpm
107 kWm 1800 rpm

Standard Electropak specification

Air inlet

- Mounted air filter and turbocharger

Fuel system

- Rotary fuel injection pump
- Mechanical governing – speed control to BS5514 Class A1, ISO 3046-4M3
- Spin-on full flow fuel oil filters and pre-filter
- Cold start aid

Lubrication system

- Flat bottomed aluminium sump
- Spin-on full flow oil filters
- Oil cooler

Cooling system

- Thermostat controlled cooling system with gear driven water pump
- Fan drive and 22" pusher fan
- Radiator (and piping) with fan guards

Electrical system

- 12 volt starter motor and 55 amp alternator
- Oil pressure switch and coolant temperature switch

Flywheel and housing

- Cast iron SAE 3 flywheel housing
- Flywheel to SAE J620 size 11.5

Mountings

- Front engine mountings

Optional equipment

- 24 volt alternator
- 24 volt starter motor
- Water temperature gauge and sender
- Heater/Starter switch
- Rear engine mountings
- Workshop manual
- Parts book
- Electronic governor (12 volt only)

Fuel Consumption litres/hour (UK gallons/hour)		
Power Rating %	1500 rpm	1800 rpm
110	24.1 (5.3)	28.4 (6.2)
100	21.8 (4.8)	25.8 (5.7)
75	16.5 (3.6)	19.9 (4.4)
50	11.4 (2.5)	14.0 (3.1)

General data

Number of cylinders 6
Cylinder arrangement Vertical in-line
Cycle.....4 stroke
Induction system Turbocharged
Combustion system.....Direct injection
Cooling system.....Water-cooled
Bore and stroke..... 100 x 127 mm (3.9 x 5 in)
Displacement 5.99 litres (365.5 cu in)
Compression ratio 16.0:1
Direction of rotation Anti-clockwise, viewed on the flywheel
Firing order 1,5,3,6,2,4
Total lubrication system capacity..... 16.1 litres (4.2 US gals)
Coolant capacity (inc. radiator)..... 27.7 litres (7.3 US gal)
Dimensions – Length 1559 mm (61.4 in)
Width 709 mm (28 in)
Height 1124 mm (44.2 in)
Total weight (dry)..... 542 kg (1195 lb)
Total weight (wet)..... 576 kg (1270 lb)
Overall dimensions and weight will depend on final specification

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