

1000 Series 1006TG2A

Diesel Engine - ElectropaK

100.0 kWm 1500 rev/min 118.0 kWm 1800 rev/min

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

- Perkins actively pursues product support excellence by ensuring our distribution network invest in their territory - strengthening relationships and providing more value to you, our customer
- Through an experienced global network of distributors and dealers, fully trained engine experts deliver total service support around the clock, 365 days a year. They have a comprehensive suite of web based tools at their fingertips covering technical information, parts identification and ordering systems, all dedicated to maximising the productivity of your engine
- Throughout the entire life of a Perkins engine, we provide access to genuine OE specification parts and service. We give 100% reassurance that you receive the very best in terms of quality for lowest possible cost .. wherever your Perkins powered machine is operating in the world

	Engine Speed (rev/min)	Type of Operation	Typical Generator Output (Net)		Engine Power			
					Gross		Net	
			kVA	kWe	kWm	bhp	kWm	bhp
	1500	Prime Power Standby Power	102.5 112.5	82.0 90.0	95.5 105.0	128.0 141.0	91.0 100.0	122.0 134.0
	1800	Prime Power Standby Power	120.5 132.5	96.5 106.0	113.5 125.0	152.5 167.5	107.0 118.0	143.5 158.0

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 ±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 ACEAE1 E2 or API CD/SD

Rating Definitions

The Perkins 1000 Series family of

ElectropaK engines are renowned

throughout the power generation industry for their superior performance and reliability.

The 1006TG2A 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.

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.

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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 10/11

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
- User handbook
- Electronic governor (12 volt only)

General Data Number of cylinders

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		
Displacement	5.99 litres		
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	16.1 litres		
capacity			
Coolant capacity	27.7 litres		
(inc. radiator)			
Length	1559 mm		
Width	709 mm		
Height	1124 mm		
Total weight (dry)	542kg		
Total weight (wet)	576 kg		

Overall dimensions and weight will depend on final specification.

Fuel consumption litres/hour (UK gallons/hour)						
1500 rev/min	1800 rev/min					
24.1 (5.3)	28.4 (6.2)					
` ,	25.8 (5.7)					
` '	19.9 (4.4) 14.0 (3.1)					
	1500 rev/min					



Perkins Engines Company Limited

Peterborough PE1 5NA United Kingdom Telephone +44 (0)1733 583000 Fax +44 (0)1733 582240

www.perkins.com

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