



# 1000 Series

## Diesel engine - ElectropaK

### 1006TAG2

#### 143 kWm 1500 rev/min



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

The 1006TAG2 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 Fastram combustion system enables high power output plus low fuel consumption.  
 Electronic governor gives close control for 50 Hz (1500 rpm) operation.

### 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

Wherever a Perkins' ElektropaK engine is put into service, it will never be far from the support provided by a global network of 4,000 distributors and dealers, all backed by a parts distribution centre giving 24 hour service, 365 days a year.  
 Suitable for operation in ambient temperatures up to 53°C (46°C if a canopy is fitted).  
 Fuelled starting aid for temperatures down to -20°C.

Engine Speed (rev/min)	Type of Operation	Typical Generator Output (net)		Engine Power			
				Gross		Net	
		kVA	kWe	kWm	bhp	kWm	bhp
1500	Prime Power	150.0	120.0	136.8	181.0	129.3	174.0
	Standby Power	165.0	132.0	150.5	201.0	143.0	193.0

All ratings data based on operating under ISOTR14396/ISO8528 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:** BS2869 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 one hour in every twelve hours of operation.

**Standby power** – Power available at variable load in the event of a main power network failure. No overload is permitted.

# 1000 Series 1006TAG2

## Standard Electropak Specification

### Air Inlet

Mounted air filter and turbocharger

### Fuel System

Rotary fuel injection pump  
Electronic governor - speed control to BS5514 Class A0,  
ISO3046-4M3  
Twin spin-on full flow fuel filters and pre-filter

### Lubrication System

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

### Cooling System

Thermostat controlled cooling system with gear driven water pump  
25" belt-driven pusher fan and guards  
Radiator incorporating air-to-air charge cooler and piping

### Electrical System

12 Volt starter motor and 55 Amp alternator with DC output  
12 Volt oil pressure and coolant temperature switches  
12 Volt shut down solenoid - energised to run cold start aid

### Flywheel and Housing

Cast iron SAE3 flywheel housing  
High inertia flywheel to SAE J620 size 10/11½

### Mountings

Front engine mounting bracket

## Optional Equipment

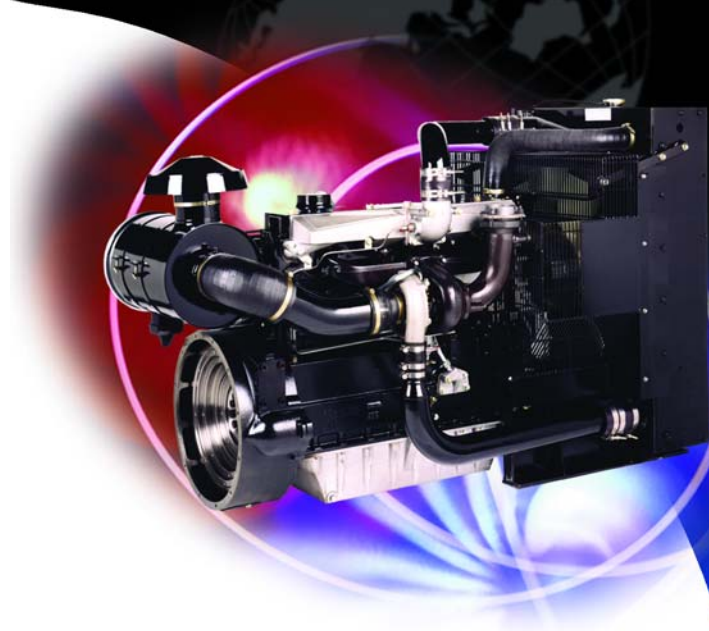
24 Volt alternator  
24 Volt starter motor  
Water temperature gauge and sender  
Heater/starter switch  
Rear engine mountings  
Workshop manual  
Parts book  
User handbook



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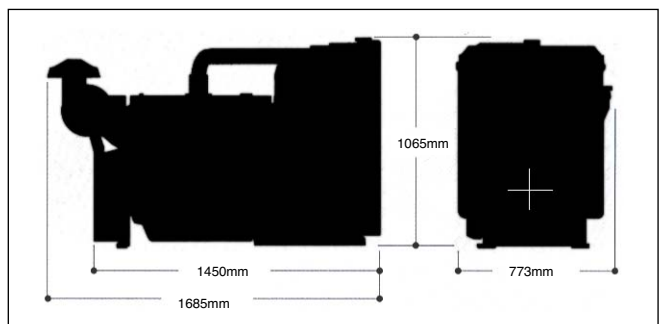
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## General Data

<b>Number of cylinders</b>	6
<b>Cylinder Arrangement</b>	Vertical in-line
<b>Cycle</b>	4 stroke
<b>Induction System</b>	Turbocharged, air-to-air aftercooled
<b>Combustion System</b>	Direct injection
<b>Cooling System</b>	Water-cooled
<b>Bore and stroke</b>	100 mm x 127 mm
<b>Displacement</b>	5.99 litres
<b>Compression Ratio</b>	17.0:1
<b>Direction of Rotation</b>	Anti-clockwise, viewed on the flywheel
<b>Total Lubrication System Capacity</b>	19 litres
<b>Coolant Capacity (inc. radiator)</b>	41 litres
<b>Length</b>	1685 mm
<b>Width</b>	773 mm
<b>Height</b>	1065 mm
<b>Total Weight (dry)</b>	586 kg

Fuel Consumption Litres/Hour (UK gallons/hour)	
Power rating %	1500 rev/min
110	45.0 (9.9)
100	41.0 (9.0)
75	31.0 (6.8)
50	20.0 (4.4)



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