

# 1000 Series 1006TAG2 Diesel Engine – Electropak

143 kWm 1500 rpm

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

- 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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To find your local distributor

| Engine Speed<br>(rpm) | Type of<br>Operation | Typical Generator<br>Output (Net) |     | Engine Power |     |     |     |
|-----------------------|----------------------|-----------------------------------|-----|--------------|-----|-----|-----|
|                       |                      | kVA                               | kWe | Gross        |     | Net |     |
|                       |                      |                                   |     | kWm          | bhp | kWm | hp  |
| 1500                  | Prime Power          | 150                               | 120 | 136          | 183 | 129 | 173 |
|                       | Standby Power        | 165                               | 132 | 150          | 201 | 143 | 191 |

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.

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THE HEART OF EVERY GREAT MACHINE

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143 kWm 1500 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
- Twin spin-on full flow fuel oil 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 SAE 3 flywheel housing
- High inertia 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

| Fuel Consumption litres/hour (UK gallons/hour) |            |
|--|------------|
| Power Rating %                                 | 1500 rpm   |
| 110  | 45.0 (9.9) |
| 100  | 41.0 (9.0) |
| 75   | 31.0 (6.8) |
| 50   | 20.0 (4.4) |

### General data

Number of cylinders ..... 6  
Cylinder arrangement ..... Vertical in-line  
Cycle.....4 stroke  
Induction system .....Turbocharged, air-to-air aftercooled  
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 ..... 17.0:1  
Direction of rotation ..... Anti-clockwise, viewed on the flywheel  
Total lubrication system capacity..... 19 litres (5 US gals)  
Coolant capacity (inc. radiator)..... 41 litres (11 US gals)  
Dimensions – Length ..... 1685 mm (66 in)  
Width ..... 773 mm (30 in)  
Height ..... 1065 mm (42 in)  
Total weight (dry)..... 690 kg (1521 lb)

Overall dimensions and weight will depend on final specification

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