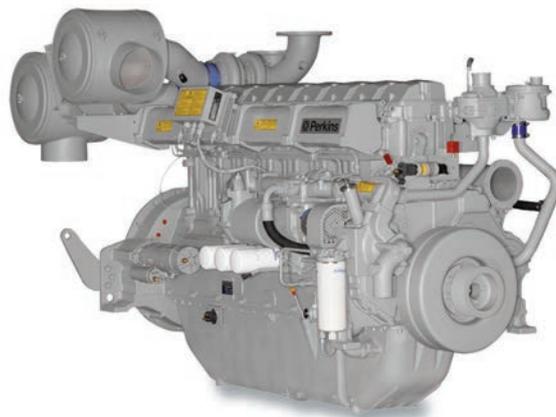


4000 Series 4008TAG1A Diesel Engine – Electropak

844 kWm @ 1500 rpm net standby power

The Perkins® 4000 Series family of 6, 8, 12 and 16 cylinder diesel engines was designed in advance of today's uncompromising demands within the power generation industry and includes superior performance and reliability.

The 4008TAG1A is a turbocharged and air-to-air charge cooled, 8 cylinder diesel engine offered with either temperate or tropical cooling. Its premium features and design provide economic and durable operation as well as an exceptional power to weight ratio, excellent load acceptance and improved gaseous emissions, plus the overall performance and reliability characteristics essential to the power generation market.



| Specification | | |
|----------------------------|---|----------------------|
| Number of cylinders | 8 vertical in-line | |
| Bore and stroke | 160 x 190 mm | 6.3 x 7.5 in |
| Displacement | 30.561 litres | 1865 in ³ |
| Aspiration | Turbocharged and air-to-air charge cooled | |
| Cycle | 4 stroke | |
| Combustion system | Direct injection | |
| Compression ratio | 13.6:1 | |
| Rotation | Anti-clockwise, viewed from flywheel end | |
| Total lubricating capacity | 153 litres | 40.4 US gal |
| Cooling system | Water-cooled | |
| Total coolant capacity | 162 litres | 42.8 US gal |

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THE HEART OF EVERY GREAT MACHINE

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Features and benefits

Dependable power

- Individual 4 valve cylinder heads giving optimised gas flows
- Unit fuel injectors ensure ultra fine fuel atomisation and hence controlled rapid combustion
- Commonality of components with other engines in the 4000 Series family for reduced stocking levels
- Capable emissions of 1/2 TA Luft (1986)

Low operating costs

- Oil change service intervals are set at 500 hours as standard
- Designed to provide low cost of ownership, simple maintenance and reduced downtime
- Class leading warranty
- Prime power - 12 months unlimited hours. For engines that operate less than 6,000 hours the warranty is available for two years or until the application reaches 6,000 hours (whichever is sooner).
Standby power - three years or 1,500 hours (whichever is sooner).
See Perkins Warranty Policy for further details
- Perkins Platinum Protection - comprehensive cover from as little as 5 percent* of the cost of your engine
Talk to your local distributor or visit www.perkins.com/platinum protection for more details

World class product support

- Our 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 disposal, covering technical information, parts identification and ordering systems, all dedicated to maximising the productivity of your engine
- Perkins actively pursues product support excellence by insisting our distribution network invest in their territory to provide customers with a consistent quality of support across the globe
- Throughout the entire life of a Perkins engine, we provide access to genuine parts giving 100% reassurance that you receive the very best in terms of quality for lowest possible cost, wherever your Perkins powered machine is
To find your local distributor: www.perkins.com/distributor

*Terms and Conditions apply

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4000 Series 4008TAG1A Diesel Engine – ElectropaK

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Technical information

Air inlet

- Mounted air filter and turbocharger

Fuel system

- Direct fuel injection system with fuel lift pump
- Digital governing to ISO 8528-5 Class G2 with isochronous capability
- Full-flow spin-on fuel oil filters

Lubrication system

- Wet full aluminium sump with filler and dipstick
- Full-flow spin-on oil filters

Cooling system

- Twin thermostats
- System designed for ambient temperatures of up to 50°C

Electrical equipment

- 24V starter motor and 24V alternator with integral regulator and DC output
- Turbine inlet temperature protection
- High coolant temperature protection switch
- Low oil pressure protection switch

Flywheel and housing

- Flywheel to SAE J620 size 18
- SAE 0 flywheel housing

Optional equipment

- 4 metre wiring harness
- Secondary electric start
- Immersion heater
- Single exhaust outlet pipe
- Exhaust counter flanges
- Temperate radiator kit

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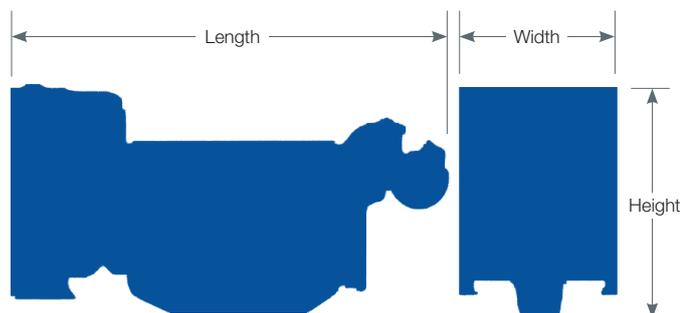
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THE HEART OF EVERY GREAT MACHINE

4000 Series 4008TAG1A Diesel Engine – ElectropaK

844 kWm @ 1500 rpm net standby power



| Engine package weights and dimensions | | | | |
|---------------------------------------|-------------------|----------|------------------|---------|
| | Temperate cooling | | Tropical cooling | |
| Length | 3852 mm | 151.7 in | 3711 mm | 146 in |
| Width | 2046 mm | 80.5 in | 2046 mm | 80.5 in |
| Height | 2067 mm | 81.3 in | 2146 mm | 84.5 in |
| Weight (dry) | 4270 kg* | 9414 lb | 4320 kg* | 9524 lb |

* For fuel cooler, add 6 kg

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| Speed rpm Radiator type | Type of operation | Typical generator output (Net) | | Engine power | | | |
|----------------------------|-------------------|--------------------------------|-----|--------------|------|-----|------|
| | | | | Gross | | Net | |
| | | kVA | kWe | kWm | hp | kWm | hp |
| 1500 Tropical | Baseload power | 720 | 576 | 644 | 864 | 606 | 813 |
| | Prime power | 911 | 728 | 805 | 1080 | 767 | 1029 |
| | Standby (maximum) | 1002 | 802 | 882 | 1183 | 844 | 1132 |

The above ratings represent the engine performance capabilities guaranteed within plus or minus 3% at the reference conditions equivalent to those specified in ISO 8528/1, ISO 3046/1, BS5514/1.

Rating conditions: 25°C air inlet temperature, barometric pressure 100 kPa, relative humidity 30%. Please consult your distributor or the factory for ratings in other ambient conditions. **Note:** For full ratings please refer to Perkins Engines Company Limited. All electrical ratings are based on an average alternator efficiency and a power factor of 0.8. **Full specification:** BS2869: Class A1 + A2 or ASTM D975 No 2D.

Rating definitions

Baseload power: Power available for continuous full load operation. No overload is permitted. **Prime power:** Power available for variable load with an average load factor not exceeding 80% of the prime power rating in any 24 hour period. Overload of 10% permitted for one hour in every twelve hours operation. **Standby (maximum):** Power available at variable load in the event of a main power network failure up to a maximum of 500 hours per year. No overload is permitted.

| Percent of prime power | Fuel consumption for temperate and tropical at 1500 rpm | |
|---------------------------|---|------|
| | g/kWh | l/hr |
| Standby (maximum) | 210 | 218 |
| Prime power | 206 | 195 |
| Continuous baseload power | 203 | 154 |
| 75% | 201 | 143 |
| 50% | 207 | 98 |

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