



4000 Series
Diesel Engine - Electro Unit
4008TAG2
4008TAG2A

947 kWm 1500 rpm 924 kWm 1800 rpm

The Perkins 4000 Series family of 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 4008TAG2 and 2A are turbocharged, air-to-air charge cooled, 8 cylinder in-line diesel engines. Their premium design and specification features provide economic and durable operation as well as exceptional power to weight ratio, improved serviceability, low gaseous emissions, overall performance and reliability essential to the power generation market.

Economic power

Individual four valve cylinder heads give optimised gas flows, while unit fuel injectors ensure ultra fine fuel atomisation and hence controlled rapid combustion, for efficiency and economy

Commonality of components with other engines in 4000 Series family allows reduced parts stocking levels.

Reliable power

dealers worldwide.

Developed and tested using latest engineering techniques.

Piston temperatures are controlled by an advanced gallery jet cooling system. All engines are tolerant of a wide range of temperatures without derate. Service is provided by the extensive Perkins network of over 4,000 distributors and

Clean, efficient power

Exceptional power to weight ratio and compact size for easier transportation and installation.

Designed to provide excellent service access for ease of maintenance.

Engines designed to comply with major international standards.

Low gaseous emissions for cleaner operation

Engine Speed rev/min	Type of Operation	Typical Generator Output (Net)		Engine Power			
				Gross		Net	
		kVA	kWe	kW	bhp	kW	bhp
1200 4008TAG2	Baseload Power Prime Power Standby (maximum)	650 823 906	520 658 725	584 730 800	783 979 1072	547 693 763	733 929 1023
1500 4008TAG2A	Baseload Power Prime Power Standby (maximum)	809 1022 1125	647 818 900	719 899 985	964 1205 1320	681 861 947	913 1155 1270
1800 4008TAG2	Baseload Power Prime Power Standby (maximum)	783 995 1098	626 796 878	715 894 980	959 1199 1314	659 838 924	885 1124 1239

Note: 4008TAG2A is offered for 50 hz operation only

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 Fuel 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.

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4000 Series 4008TAG2 4008TAG2A

Standard Electro Unit Specification

Air Inlet

Mounted air filters and turbochargers

Fuel System

Unit fuel injectors with lift pump and hand stop control Electronic governor to ISO 3046 Part 4 class A1 Full-flow spin-on fuel oil filters

Lubrication System

Wet sump with filler and dipstick Full-flow spin-on oil filters Engine jacket water/lub oil temperature stabiliser

Cooling System

Gear driven circulating pump Twin thermostats Crankshaft pulley for fan drive

Electrical Equipment

24 Volt starter motor and 24 volt/40 Amp alternator with integral regulator and DC output

24 Volt combined high coolant temperature/low oil pressure switch

Overspeed switch and magnetic pickup Turbine inlet temperature shutdown switch 24 Volt stop solenoid (energised to run)

Flywheel and Housing

Flywheel to SAE J620 size 18 SAE 0 flywheel housing

Optional Equipment

The following optional extra equipment is available to make up the specifications to the Perkins ElectropaK specification: Tropical radiator including: water pipes, clips and hoses, fan, fan guards and belts

Other optional extra equipment available:

Twin heavy duty air cleaner - paper element with pre-cleaner Changeover lubricating oil filter Changeover fuel oil filter Immersion heater with thermostat Water pipes, clips and hoses for radiator

Air starters Instrument panel

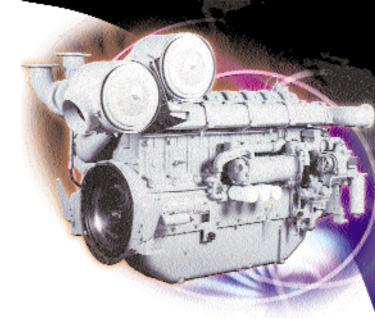
Note: This list is not exhaustive, further options may be available to meet particular applications on enquiry to Perkins Sales Department

Perkins

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All information given in this leaflet is correct at the time of printing but it may be changed subsequently by the Company



General Data

Number of Cylinders Cylinder Arrangement Cycle **Induction System**

Combustion System Cooling System Bore and Stroke Displacement Compression Ratio **Direction of Rotation**

Firing Order Total Lubrication System Capacity

Total Coolant Capacity Total Weight (Dry) Length Width Height

Vertical in-line 4 stroke Turbocharged and air to air charge cooled Direct injection Water-cooled 160 x 190 mm 30.561 litres 13.6:1 Anti-clockwise, viewed from

flywheel end

1, 4, 7, 6, 8, 5, 2, 3

165.6 litres

Electro Unit	ElectropaK
48 litres	162 litres
3250 kg	4360 kg
2855 mm	3935 mm
1585 mm	1870 mm
1775 mm	2258 mm

Fuel Consumption g/kWh								
Engine speed	1200rev/min	1500 rev/min	1800 rev/min					
Lingine speed	4008TAG2	4008TAG2A	4008TAG2					
At standby maximum power rating	206	214	216					
At prime power rating	202	218	213					
At continuous baseload rating	198	204	206					
At 75% of prime power rating	198	202	206					
At 50% of prime power rating	208	205	205					
At 25% of prime power rating	232	216	210					



