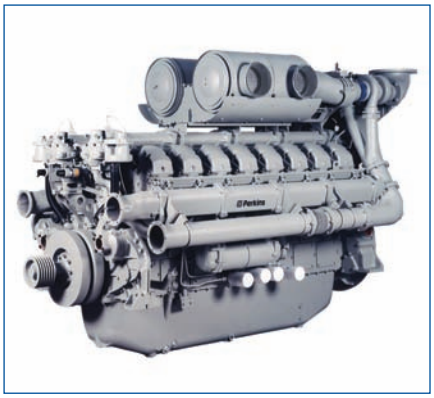

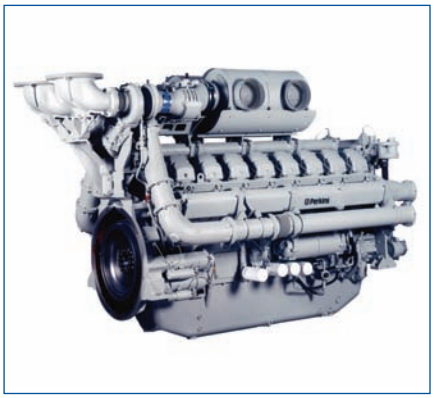

The Perkins 4000 Series family of 8, 12 and 16 cylinder diesel engines was designed in advance of today's uncompromising demands within the power generation industry and includes superior performance and reliability.

The 4016TAG2/2A are turbocharged, air to air charge cooled, 16 cylinder vee form 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. The 4016TAG2A is specially tuned for improved load acceptance response in standby duty.

4000 Series

4016TAG2
4016TAG2A

Diesel Engine – Electro Unit

1540 kWm 1200 rev/min
1886 kWm 1500 rev/min

Economic power

- Individual 4 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

- 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.

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.

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
1200	Baseload Power	1329	1063	1166	1563	1108	1485
4016 TAG2	Prime Power	1680	1344	1458	1954	1400	1877
	Standby (maximum)	1848	1478	1598	2148	1540	2065
1500	Baseload Power	1634	1307	1413	1894	1362	1826
4016 TAG2A	Prime Power	2058	1646	1766	2367	1715	2300
	Standby (maximum)	2263	1811	1937	2596	1886	2529

Note: 4016TAG2A is offered for 50Hz 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, BS 5514/1.

Ratings conditions: 25ºC air inlet temperature, barometer pressure 100 kPa, relative humidity 30%. Please consult your distributor or the factory for ratings in 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: BS 2869 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 1 hour in every 12 hours operation.
Standby (maximum): Power available at variable load in the event of a main power network failure for a maximum of 500 hours per year. No overload is permitted.

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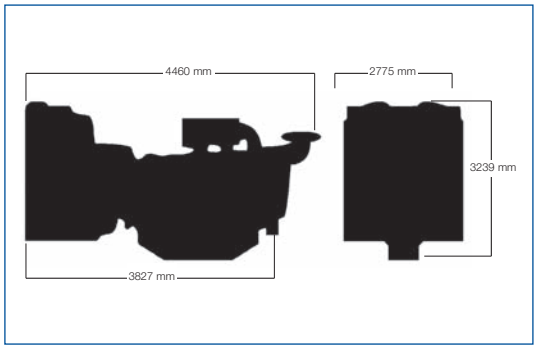
4000 Series

4016TAG2
4016TAG2A



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
- Twin gear driven circulating pumps
- Two 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 00 flywheel housing

Optional Equipment

The following optional equipment is available to make up the specifications to 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 filters
Changeover fuel oil filters
Immersion heater with thermostat
Water pipes, clips and hoses for radiator
Air starters
Instrument panel

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

Fuel Consumption (g/kWh)		
Engine Speed	1200 rev/min 4016TAG2	1500 rev/min 4016TAG2A
Standby Maximum Rating	212	212
Prime Power Rating	208	209
Baseload Power Rating	207	205
75% of Prime Power Rating	207	203
50% of Prime Power Rating	215	202
25% of Prime Power Rating	251	212

General Data

Number of cylinders	16	
Cylinder arrangement	60º Vee form	
Cycle	4 stroke	
Induction system	Turbocharged Air to air charge cooled	
Combustion system	Direct injection	
Cooling system	Water-cooled	
Displacement	61.123 litres	
Bore and stroke	160 x 190 mm	
Compression ratio	13.6:1	
Direction of rotation	Anti-clockwise, viewed from flywheel end	
Firing order	1A, 1B, 3A, 3B, 7A, 7B, 5A, 5B, 8A, 8B, 6A, 6B, 2A, 2B, 4A, 4B	
Total lubrication system capacity	237.2 litres	
	Electro Unit	ElectropaK
Total coolant capacity	95 litres	316 litres
Length	3302 mm	4460 mm
Width	1723 mm	2775 mm
Height	2128 mm	3239 mm
Total weight (dry)	5570 kg	8010 kg

Final weight and dimensions will depend on completed specification

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