1886 kWm @ 1500 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 4016TAG2A 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.



Specification					
Number of cylinders	16 60° Vee form				
Bore and stroke	160 x 190 mm 6.3 x 7.5 in			7.5 in	
Displacement	61.123 litres 3722 in ³			2 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	237.2 litres 63 US gal		S gal		
Cooling system	Water-cooled				
	Electro unit		ElectropaK		
Total coolant capacity	95 litres	25 US gal	316 litres	85 US gal	

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Features and benefits

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



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Technical information

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

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

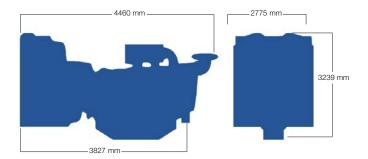
www.perkins.com

Photographs are for illustrative purposes only and may not reflect final specification.

All information in this document is substantially correct at time of printing and may be altered subsequently. Final weight and dimensions will depend on completed specification.



1886 kWm @ 1500 rpm



Engine package weights and dimensions					
	Electro unit		ElectropaK		
Length	3302 mm	130 in	4460 mm	176 in	
Width	1723 mm	68 in	2775 mm	109 in	
Height	2128 mm	84 in	3239 mm	126 in	
Weight (dry)	5570 kg	12279 lb	8010 kg	17659 lb	

1886 kWm @ 1500 rpm

0 .	_ ,	Typical generator output (Net)		Engine power			
Speed Type of rpm operation				Gross		Net	
	operation	kVA	kWe	kWm	hp	kWm	hp
	Baseload power	1634	1307	1413	1894	1362	1826
1500	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: 25°C 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.

Percent of prime power	Fuel consumption at 1500 rpm g/kWh
Standby (maximum)	212
Prime power	209
Baseload power	205
75%	203
50%	202
25%	212