

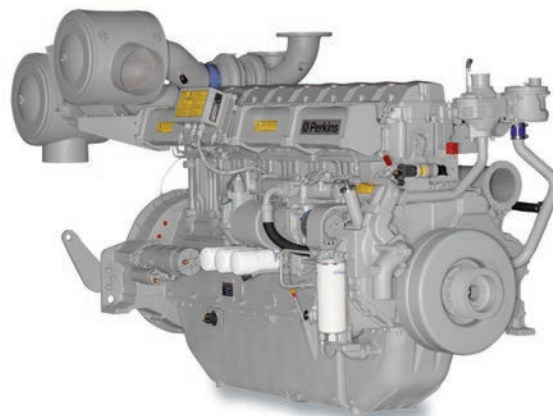
# 4000 Series 4008TAG1A Diesel Engine – Electropak

Emission Compliant

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	1864 in <sup>3</sup>
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

[www.perkins.com](http://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.

Publication No. PN1833A/06/16 Produced in England ©2016 Perkins Engines Company Limited

 **Perkins®**

THE HEART OF EVERY GREAT MACHINE

# 4000 Series 4008TAG1A Diesel Engine – Electropak

Emission Compliant

844 kWm @ 1500 rpm net standby power

## 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](http://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](http://www.perkins.com/distributor)

\*Terms and Conditions apply

[www.perkins.com](http://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.

Publication No. PN1833A/06/16 Produced in England ©2016 Perkins Engines Company Limited

 **Perkins**<sup>®</sup>

THE HEART OF EVERY GREAT MACHINE

# 4000 Series 4008TAG1A Diesel Engine – ElectropaK

Emission Compliant

844 kWm @ 1500 rpm net standby power

## 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

[www.perkins.com](http://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.

Publication No. PN1833A/06/16 Produced in England ©2016 Perkins Engines Company Limited

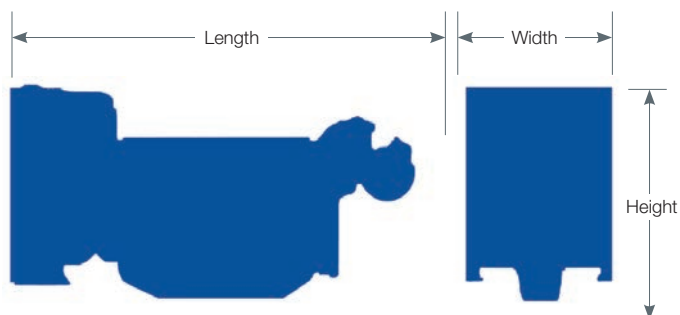
 **Perkins**<sup>®</sup>

THE HEART OF EVERY GREAT MACHINE

# 4000 Series 4008TAG1A Diesel Engine – ElectropaK

Emission Compliant

844 kWm @ 1500 rpm net standby power



Engine package weights and dimensions				
	Temperate cooling		Tropical cooling	
Length	3852 mm	151 in	3711 mm	146 in
Width	2046 mm	80.5 in	2046 mm	80.5 in
Height	2067 mm	81.4 in	2146 mm	84.5 in
Weight (dry)	4270 kg*	9413 lb	4320 kg*	9523 lb

\* For fuel cooler, add 6 kg

[www.perkins.com](http://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.

Publication No. PN1833A/06/16 Produced in England ©2016 Perkins Engines Company Limited

 **Perkins**<sup>®</sup>

THE HEART OF EVERY GREAT MACHINE

# 4000 Series 4008TAG1A Diesel Engine – Electropak

Emission Compliant

844 kWm @ 1500 rpm net standby power

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	602	807
	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
25%	217	52

[www.perkins.com](http://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.

Publication No. PN1833A/06/16 Produced in England ©2016 Perkins Engines Company Limited



THE HEART OF EVERY GREAT MACHINE