

# 4008-30TAG Electric Power Engines

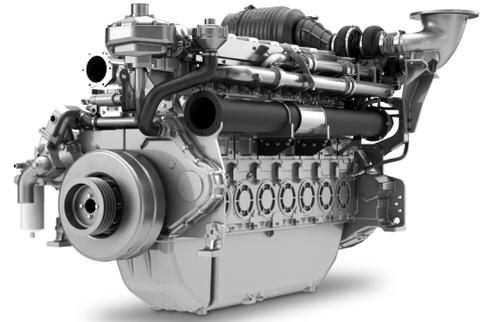
**Power range 1500 rpm 682-1105 kW** (engine gross power)

**Emissions Fuel optimised**

The Perkins® 4000 Series is a family of 6, 8, 12 and 16 cylinder diesel engines, designed to address today's uncompromising demands within the power generation industry with particular aim at the standby market sector.

Developed from a proven engine range that offers superior performance and reliability.

The 4008-30TAG engines are turbocharged and air-to-air chargecooled, 8 cylinder diesel engine offered in an engine only configuration. 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.



## Features and benefits

- Individual 4 valve cylinder heads giving optimised gas flows and unit fuel injectors ensure ultra fine fuel atomisation and hence controlled rapid combustion **maximising productivity**.
- Commonality of components with other engines in the 4000 Series family for reduced stocking levels
- Designed to provide **low cost of ownership**, simple maintenance and reduced downtime.
- Perkins engines are designed and developed with our customer in mind. Keeping service cost to a minimum ensures **low periodic running costs**. This is achieved through 500 hour service intervals for oil and fuel as standard under all operating conditions.
- The **long productive life** of our products is supported through the Perkins 12 month warranty as standard for prime power applications, and the 1500 hour or two year emissions warranty. For further peace of mind, there is also the option to extend the warranty period through **Perkins® Platinum Protection**. Contact your local distributor or visit [www.perkins.com/platinumprotection](http://www.perkins.com/platinumprotection).
- Engines are produced using the Caterpillar Production System established in all Perkins manufacturing operations, achieving the same **efficient processes** and **stringent quality controls** at every global facility.

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## Specification

	Model		
	4008-30TAG1	4008-30TAG2	4008-30TAG3
Configuration	Electro unit and ElectropaK		
Cylinders	8 vertical in-line		
Displacement, litres (in <sup>3</sup> )	30.561 (1856)		
Aspiration	Turbocharged and air-to-air chargecooled		
Bore and stroke, mm (in)	160 x 190 (6.3 x 7.5)		
Combustion system	Direct injection		
Compression ratio	12.8:1		
Exhaust aftertreatment	N/A		
Rotation (viewed from flywheel)	Anti-clockwise		
Total lubricating oil capacity, litres (US gal)	153 (40.4)		
Cooling system	Watercooled		
Total coolant capacity, litres (US gal)*	140 (37)		

\*dependant on cooling pack selected

## Technical information

Model	Speed rpm	Type of Operation	Engine Power		Typical Generator Output* (Net)		Prime Fuel Consumption			
			Gross	Net			110%	100%	75%	50%
			kW (hp)	kW (hp)	kVA	kWe	g/kWh	g/kWh	g/kWh	g/kWh
4008-30TAG1	1500	Baseload	682 (915)	632 (1073)	750	600	193	197	197	201
		Prime/DCP	808 (1053)	758 (1270)	900	720				
		Standby	892 (1196)	842 (1408)	1000	800				
4008-30TAG2	1500	Baseload	724 (971)	674 (1073)	800	640	202	202	202	205
		Prime/DCP	901 (1208)	851 (1270)	1010	808				
		Standby	997 (1337)	947 (1408)	1125	900				
4008-30TAG3	1500	Baseload	850 (1140)	800 (1073)	950	760	210	206	202	204
		Prime/DCP	997 (1337)	947 (1270)	1125	900				
		Standby	1105 (1482)	1055 (1408)	1250	1000				

\*generator powers are typical and based on typical alternator efficiencies and a power factor (cos  $\theta$ ) or 0.8.

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## Standard equipment

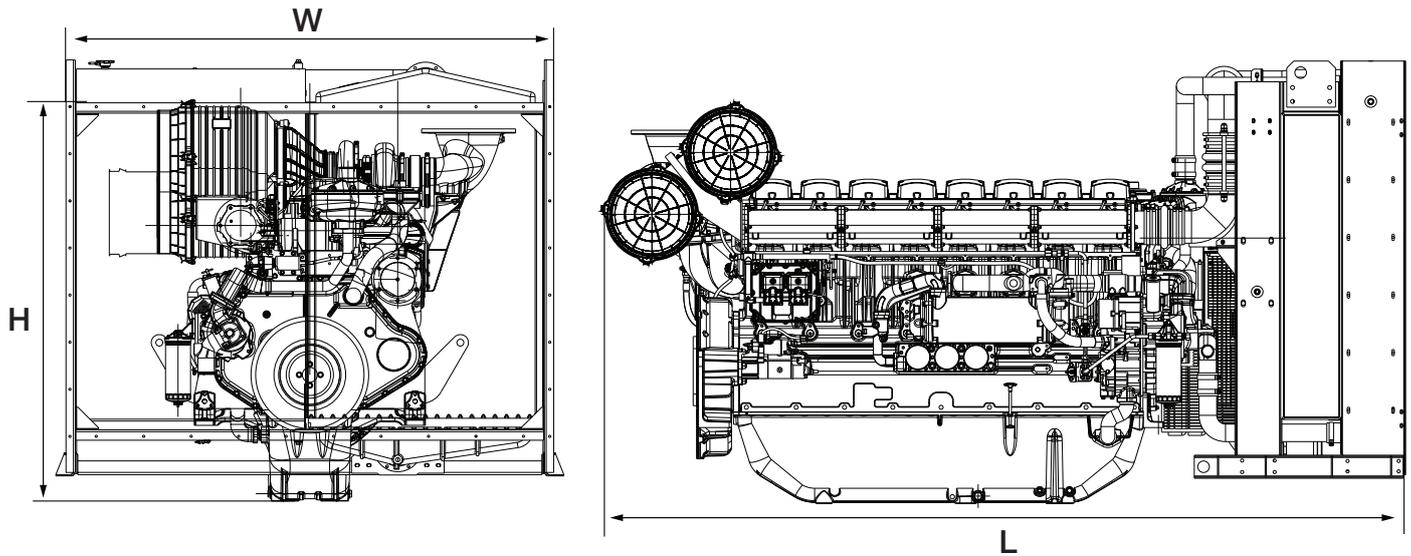
	Model		
	4008-30TAG1	4008-30TAG2	4008-30TAG3
Electro unit or ElectropaK	Both	Both	Both
Radiator fitted	✓	✓	✓
Fuel filter, engine mounted	✓	✓	✓
Water separator	✓	✓	✓
Fuel priming pump (manual/electric)	Manual	Manual	Manual
Fuel cooler (not required for most installations)	✓	✓	✓
Air filter, engine mounted	✓	✓	✓
Engine ECM, engine mounted	N/A	N/A	N/A
Wiring harness to ECM	N/A	N/A	N/A
Wiring harness (all connectors to single customer interface)	N/A	N/A	N/A
Starter motor	✓	✓	✓
Battery charging alternator	✓	✓	✓
Flywheel housing	✓	✓	✓
Flywheel	✓	✓	✓
Fan	✓	✓	✓
Fan guard	✓	✓	✓
Temperature and oil pressure for automatic stop/alarm configurable	✓	✓	✓

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## Engine package weights and dimensions



	Model		
	4008-30TAG1	4008-30TAG2	4008-30TAG3
Configuration	ElectropaK		
Dimensions, H x L x W, mm (in)	1920 x 3468 x 2194 (76 x 137 x86)		
Dry weight, kg (lb)	4217 (9297)		

**Baseload:** Power available at constant load, no overload is permitted.

**Prime power:** Power available at variable load in lieu of a main power network. Overload of 10% is permitted for 1 hour in every 12 hours of operation.

**Data Centre Power (DCP):** Power available for variable or continuous electrical loads in a data centre application. Overload of 10% is permitted for 1 hour in every 12 hours of operation.

**Standby (maximum):** Power available at variable load in the event of a main power network failure. No overload is permitted.