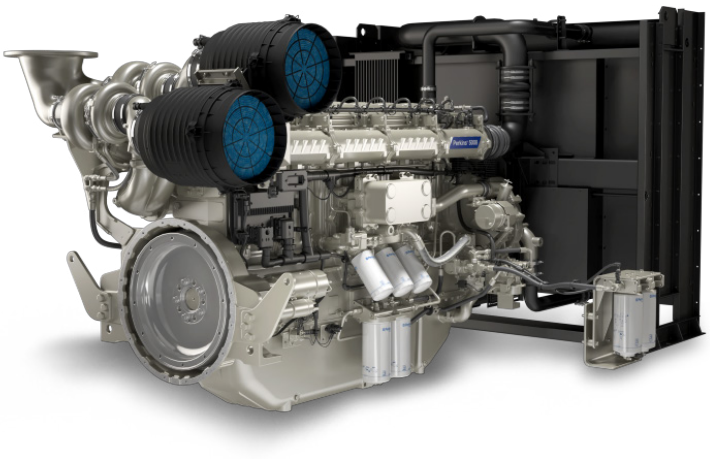
5008C-E30TAG Electric Power Engines

Power range 1800 rpm **907-1107 kW** (engine gross power)

Emissions **U.S. EPA Stationary Emergency-Use-Only (Tier 2)**



The Perkins® 5008C-E30TAG has been designed to offer reliable power for the emergency standby and critical applications market, including data centres and hospitals among others.

Engineered and built specifically for the power generation market, the Perkins® 5000 Series is a power-packed engine range built to be dependable, versatile and offer lower emissions to meet regulatory standards.

Features and benefits

- The 5000 Series delivers **maximised productivity** through outstanding load acceptance, achieving NFPA110 Type 10 and ISO 8528-5 G2 and G3 performance class. The engine build and performance have been designed with ultimate productivity and dependability in mind, so customers can be confident that power will be available when required. They have been tested around the world, in the harshest environments, to deliver performance, no matter the conditions.
- A single point customer electronics connection supports **ease of integration and service accessibility** is provided from a single side with two year oil and fuel service intervals.
- Excellent oil consumption through dedicated piston, ring and liner assembly and improved fuel consumption deliver **low daily operating costs**.
- The 5000 Series utilises **advanced technology,** with full authority electronics, that easily integrate into the customer's chosen telematic solutions and are certified to U.S. EPA Tier 2 emission standards. We offer an optional closed crankcase ventilation system to reduce crankcase emissions further, if required.

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Specification

	Model	
	5008C-E30TAG4	5008C-E30TAG5
Configuration	Electro unit/ElectropaK	
Cylinders	8 vertical in-line	
Displacement, litres (in^3)	30.561 (1865)	
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, viewed from flywheel end	
Total lubricating oil capacity, litres (US gal)	153 (40.4)	
Cooling system	Watercooled	
Total coolant capacity, litres (US gal)	140 (37)	

Technical information

Model	Speed	Type of Operation	Engine Power		Typical Generator Output* (Net)		DCP Fuel Consumption			
			Gross	Net			ESP	DCP	75%	50%
	rpm		kWm (hp)	kWm (hp)	kVA	kWe	g/kWh	g/kWh	g/kWh	g/kWh
5008C-E30TAG4	1800	DCP	907 (1215)	853 (1143)	1012	810	210	218	227	218
		ESP	1001 (1342)	947 (1269)	1125	900				
5008C-E30TAG5	1800	DCP	1001 (1342)	947 (1269)	1125	900	209	211	226	221
		ESP	1107 (1485)	1053 (1412)	1250	1000				

*Generator powers are typical and based on typical alternator efficiencies and a power factor (cos θ) or 0.8.

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Standard equipment

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

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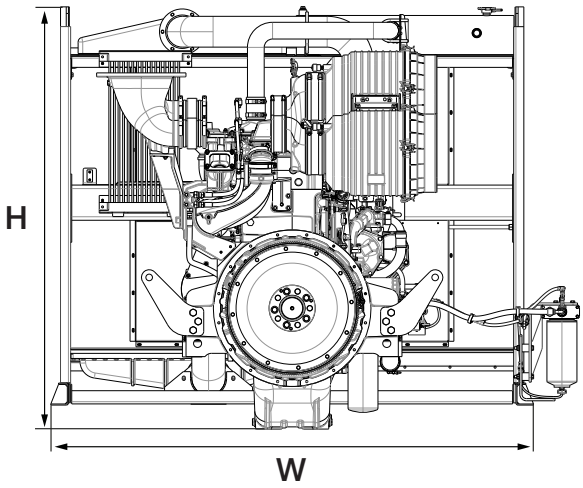
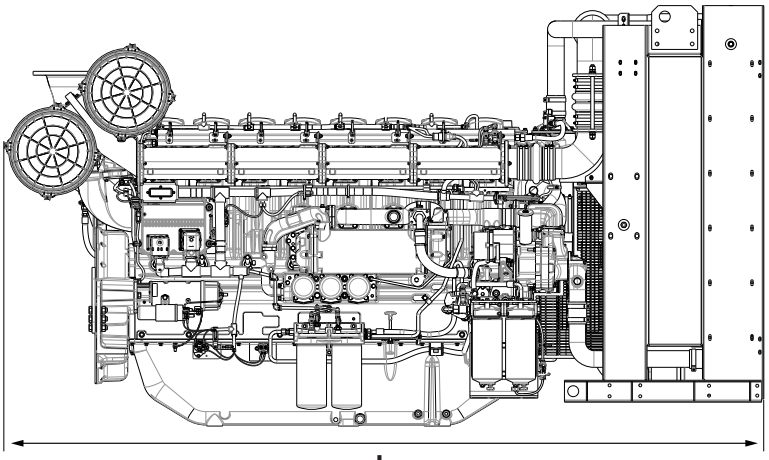
Engine package weights and dimensions





	Model	
	5008C-E30TAG4 / 5008C-E30TAG5	
Configuration	ElectropaK	Electro unit
Dimensions, H x L x W, mm (in)	1919 x 3469 x 2194 (75.6 x 136.6 x 86.4)	1746 x 2717 x 1574 (68.7 x 107 x 62)
Dry weight, kg (lb)	4360 (9612)	3342 (7368)

Emergency standby power (ESP): Limited to 200 hours usage per year with an average load factor of 80 percent of the published ESP rating over each 24 hour period.

Data Centre Power (DCP): Power available for variable or continuous electrical loads in a data centre application. Up to 100 percent load factor is permitted for unlimited time. An overload of 10 percent permitted for 1 hour in every 12 hours of operation. DCP power definition relies on ISO8528-1 2018 standard to be followed by generator set manufacturer, and will support Tier I to Tier IV classifications of data centres as per UPTIME institute guidelines.

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