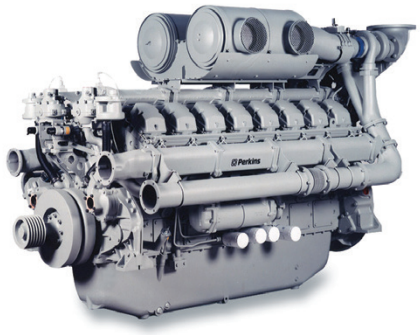
4016TAG Electric Power Engines

Power range 1500 rpm **1270-1937 kWm** (engine gross power)
Emissions **Fuel optimised**



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 4016TAG are turbocharged, air-to-air chargecooled, 16 cylinder vee form diesel engine.

Its 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 4016TAG are specially tuned for improved load acceptance response in standby duty.

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 and **ease of integration**.
- 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. For further peace of mind, there is also the option to purchase Extended Service Contracts through **Perkins Platinum Protection**. Contact your local distributor or visit www.perkins.com/en_GB/aftermarket/perkins-platinum-protection.
- Perkins takes pride in manufacturing all products globally to the same **high quality standard**. All of our products are manufactured in world class facilities to ensure highest quality for your peace of mind.

PN3233/04/20 Produced in England ©2020 Perkins Engines Company Limited

Perkins®
THE HEART OF EVERY GREAT MACHINE

4016TAG Electric Power Engines

Power range 1500 rpm **1270-1937 kWm** (engine gross power)
Emissions **Fuel optimised**

Specification

	Model	
	4016TAG1A	4016TAG2A
Configuration	ElectropaK	
Cylinders	16 60° vee	
Displacement, litres (in^3)	61.1 (3722)	
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	13.6:1	
Exhaust aftertreatment	N/A	
Rotation (viewed from flywheel)	Anti-clockwise, viewed from flywheel end	
Total lubricating oil capacity, litres (US gal)	237 (63)	
Cooling system	Watercooled	
Total coolant capacity, litres (US gal)	316 (85)	

Technical information

Model	Speed	Type of Operation	Engine Power		Typical Generator Output* (Net)		Prime Fuel Consumption				
			Gross	Net			110%	100%	Baseload	75%	50%
	rpm		kWm (hp)	kWm (hp)	kVA	kWe	g/kWh	g/kWh	g/kWh	g/kWh	g/kWh
4016TAG1A	1500	Baseload	1270 (1703)	1219 (1635)	1463	1170	207	205	199	198	198
		Prime	1588 (2130)	1537 (2061)	1844	1476					
		Standby	1741 (2335)	1690 (2266)	2028	1622					
4016TAG2A	1500	Baseload	1413 (1895)	1362 (1826)	1634	1307	212	209	205	203	202
		Prime	1766 (2368)	1715 (2300)	2058	1646					
		Standby	1937 (2598)	1886 (2529)	2263	1811					

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

PN3233/04/20 Produced in England

Perkins®
THE HEART OF EVERY GREAT MACHINE

4016TAG Electric Power Engines

Power range 1500 rpm **1270-1937 kWm** (engine gross power)
Emissions **Fuel optimised**

Standard equipment

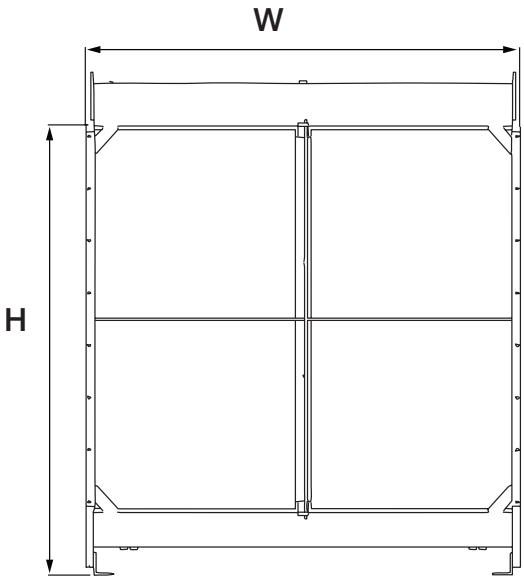
	Model	
	4016TAG1A	4016TAG2A
Electro unit or electropaK	ElectropaK	ElectropaK
Radiator fitted	✓	✓
Fuel filter, engine mounted	✓	✓
Water separator	✓	✓
Fuel priming pump (manual/electric)	Manual	Manual
Fuel cooler	✓	✓
Air filter, engine mounted	✓	✓
Engine ECM, engine mounted	N/A	N/A
Wiring harness to ECM	N/A	N/A
Wiring harness (all connectors to single customer interface)	N/A	N/A
Starter motor	✓	✓
Battery charging alternator	✓	✓
Flywheel housing	✓	✓
Flywheel	✓	✓
Fan	✓	✓
Fan guard	✓	✓
Temp and oil pressure for automatic stop/alarm configurable	✓	✓

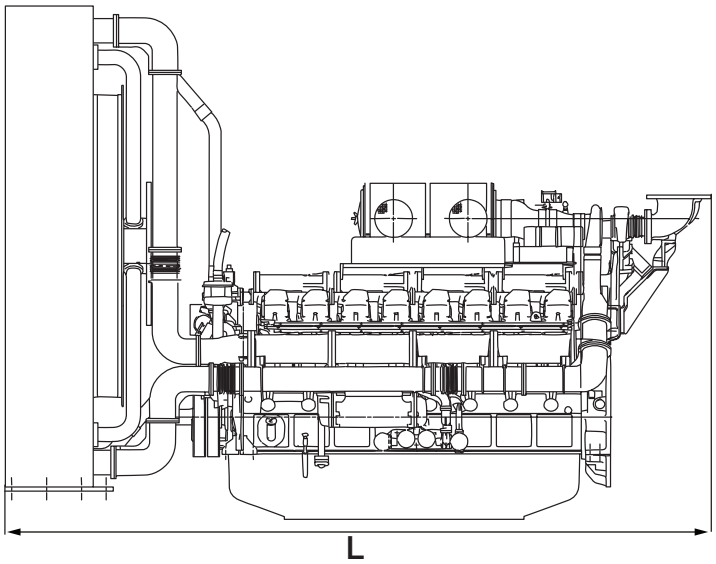
Perkins®
THE HEART OF EVERY GREAT MACHINE

4016TAG Electric Power Engines

Power range 1500 rpm **1270-1937 kWm** (engine gross power)
Emissions **Fuel optimised**

Engine package weights and dimensions





	Model	
	4016TAG1A	4016TAG2A
Configuration	ElectropaK	ElectropaK
Dimensions, H x L x W, mm (in)	3239 x 4460 x 2775 (126 x 176 x 109)	
Dry weight, kg (lb)	8010 (17659)	

Baseload power: Power available for continuous full load operation. 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.

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

Perkins®
THE HEART OF EVERY GREAT MACHINE