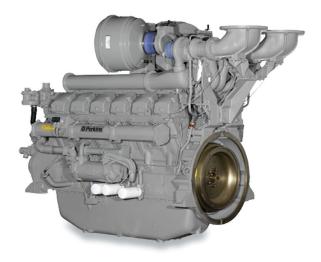
1395 kWm @ 1500 rpm net standby power

The Perkins® 4000 Series 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 4012-46TAG2A ElectropaK is a turbocharged, air-to-air charge cooled, 12 cylinder diesel engine.

Offered with either temperate or tropical cooling packages (with or without fuel oil cooling). 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.



Specification				
Number of cylinders	12 60° Vee form			
Bore and stroke	160 x 190 mm		6.3 x 7.5 in	
Displacement	45.842 litres 2797 in ³		7 in ³	
Aspiration	Turbocharged and air to air charge cooled			
Cycle	4 stroke			
Combustion system	Direct injection			
Compression ratio	13:1			
Rotation	Anti-clockwise, viewed from flywheel end			
Total lubricating capacity	177 litres		46.7 US gal	
Cooling system	Water-cooled			
	Temperate		Tropical	
Total coolant capacity	207 litres	54.6 US gal	210 litres	55.5 US gal

Publication No. PN1826A/01/19 Produced in England ©2016 Perkins Engines Company Limited

1395 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 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 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
 operating in the world

To find your local distributor: www.perkins.com/distributor

*Terms and conditions apply



THE HEART OF EVERY GREAT MACHINE

1395 kWm @ 1500 rpm net standby power

Technical information

Air inlet system

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 filters

Lubrication system

- · Wet full aluminium sump with filler and dipstick
- Full flow spin-on oil filters

Cooling system

- Two 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
- Twin high coolant temperature protection switch
- Twin low oil pressure protection switch

Flywheel and housing

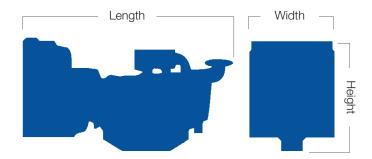
- Flywheel to SAE J620 Size 18
- SAE 00 flywheel housing

Optional equipment

- 4 metre wiring harness
- Secondary electric start
- Immersion heater
- Single exhaust outlet pipe
- Exhaust counter flanges
- Temperate radiator kit
- 21" flywheel



1395 kWm @ 1500 rpm net standby power



Engine package weights and dimensions					
	Temperate		Tropical		
Length	3916 mm	154 in	3915 mm	154 in	
Width	1775 mm	70 in	2198 mm	86.5 in	
Height	2255 mm	88.8 in	2258 mm	88.9 in	
Weight (dry)	4400 kg	9700 lb	4400 kg	9700 lb	

1395 kWm @ 1500 rpm net standby power

0 .	Type of operation	Typical generator output (Net)		Engine power			
Speed rpm				Gross		Net	
		kVA	kWe	kWm	hp	kWm	hp
	Baseload power	1194	955	1069	1434	1005	1348
1500	Prime power	1505	1204	1331	1785	1267	1700
	Standby (maximum)	1656	1325	1459	1957	1395	1870

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.

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. Fuel specification: BS2869: Class A2.

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 up to a maximum of 500 hours per year. No overload is permitted.

Percent of prime power	Fuel consumption at 1500 rpm g/kWh	Fuel consumption at 1500 rpm l/hr
Standby (maximum)	201	341
Prime power	200	310
Continuous baseload	200	249
75%	201	234
50%	203	157