

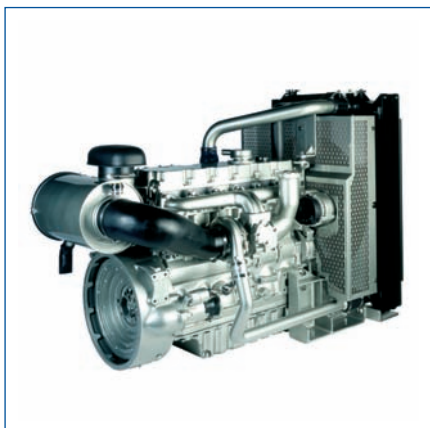


1100 Series

1106D-E66TAG2

Diesel Engine - ElectropaK

154 kW @ 1800 rev/min



Power to Meet your Needs

Hitting the key power nodes required by the market, the 1106D-E66TAG2 ElectropaK has been developed to provide a clean and cost effective power solution.

State of the Art Design

The 1106D utilises the latest common-rail fuel system technologies with a closely optimised air-management system, which is overseen by the latest generation of electronic engine control. This allows the 1106D range to deliver high power density and excellent fuel economy with low exhaust emissions and minimum heat rejection.

Worldwide Power Solution

The 1106D has been designed to be worldwide fuel tolerant, including kerosene, jet aviation fuel and 5% biofuel (RME). Options are available to meet local market needs.

World-class Product Support

At Perkins we are constantly researching, developing and investing in our products and services. Total worldwide support is provided through a network of 4,000 distributors and service outlets, providing access to over 50,000 parts and exchange units 24 hours a day, 365 days a year. This support is enhanced by TIPSS (The Integrated Parts and Service System). TIPSS enables customers to electronically specify and order parts as well as service 1106D engines with online guides and service tools.

Lower Operating Costs

The 1106D maintains Tier 2 fuel economy. This will allow many customers to keep existing fuel tanks, avoiding the need for costly redesign. Service intervals are set at 500 hours as standard and Perkins provides comprehensive warranty cover for two years (up to 3,000 hours), with three years on major engine components. A low usage warranty package is also available.

Long-term Power Solution

The 1106D-E66TAG ElectropaK range has been designed to fully comply with stringent EPA Tier 3 emissions regulations, providing an emissions compliant power solution for the future.

Certified against the requirements of Tier 3 legislation for non-road mobile machinery, powered by constant speed engines (EPA 40 CFR Part 89 Tier 3).

The 1106D-E66TAG ElectropaKs are the latest addition to Perkins 1100 Series Electric Power line-up. Offering improved power density from a compact package, these ElectropaK's build on Perkins reputation within the Power Generation Industry.

These ultra clean engines are assembled on a new high technology production line. Frequent computerised checks during the production process ensure high build quality is maintained throughout.

Hitting the key power nodes required by the market, the 1106D-E66TAG product line-up consists of three models offering a power solution for both Prime and Standby applications, in 60 Hz territories.

Engine speed (rev/min)	Type of Operation	Typical generator output (net)		Engine power			
		kVA	kWe	Gross		Net	
				kWm	bhp	kWm	bhp
1800	Prime	156	125	144	194	136	183
	Standby (maximum)	175	140	162	217	154	206

The above ratings represent the engine performance capabilities to conditions specified in ISO 8528/5. Derating may be required for conditions outside the test conditions; consult Perkins Engines Company Limited. Generator powers are typical and are based on typical alternator efficiencies and a power factor. Fuel specification: Consult Perkins Engines Company Limited (various fuel specifications are available). Lubricating oil: multi-grade oil conforming to API-CH4/C14 must be used.

Rating Definitions

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

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Standard ElectropaK Specification

Air inlet

- Mounted air filter and turbocharger

Cooling system

- 27" belt-driven pusher fan and guards
- Radiator (incorporating air-to-air charge cooler + fuel cooler)
- Water pump

Electric system

- 12 volt starter motor
- 12 volt, 100 amp alternator with DC output

Flywheel and housing

- High inertia flywheel
- SAE2 flywheel housing

Fuel system

- Electronic governing (conforms to Class G3 ISO 8528-5)
- Fuel filter

Literature

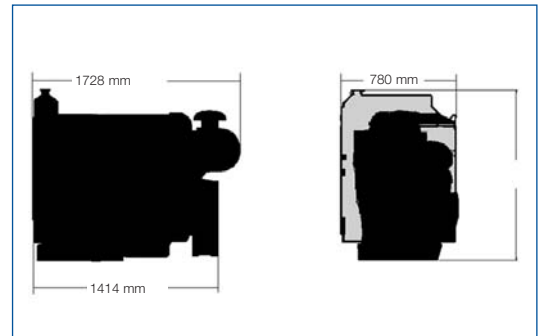
- Users Handbook

Lubrication system

- Flat-bottomed isolated aluminium sump
- Oil filter

Start aids

- Glow plugs



Fuel Consumption		
Engine Speed	1800 rev/min	
	g/kWh	l/hr
Standby	216	42
Prime power	219	38
Continuous baseload	n/a	
75% of prime power	232	30
50% of prime power	245	21
25% of prime power	259	11

General Data

Number of cylinders	6 in-line
Bore and stroke	105 mm x 127 mm
Displacement	6.6 litres
Aspiration	Turbocharged air-to-air aftercooling
Cycle	4 stroke
Combustion system	Direct injection
Compression ratio	16.2:1
Rotation	Anti-clockwise viewed on flywheel
Cooling system	Water
Dimensions	Length 1728 mm* Width 780 mm Height 1414 mm
Dry weight	788 kg
Wet weight	822 kg

* Length includes air cleaner
Final weight and dimensions will depend on completed specification



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