



The 1104D-E44TAG 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 1100 Series 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 1104D ElectropaK product line-up consists of three models offering a power solution for both Prime and Standby applications, in 60 Hz territories.



# 1100 Series 1104D-E44TAG2

**Diesel Engine - ElectropaK** 

111 kW @ 1800 rev/min

## Power to Meet your Needs

Hitting the key power nodes required by the market, the 1104D-E44TAG2 ElectropaK has been developed to provide a clean and cost effective power solution.

## State of the Art Design

The 1104D 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 1104D range to deliver high power density and excellent fuel economy with low exhaust emissions and minimum heat rejection.

## Worldwide Power Solution

The 1104D has been designed to be worldwide fuel tolerant, 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 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 1104D engines with online guides and service tools.

## Lower Operating Costs

The 1104D 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, with three years on major engine components. A low usage warranty package is also available.

## Long-term Power Solution

The 1104D-E44TAG 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).

Engine speed (rev/min)	Type of Operation	Typical generator output (net)		Engine power			
				Gross		Net	
		kVA	kWe	kWm	bhp	kWm	bhp
1800	Prime	113.0	90.0	106.0	142.1	100.0	134.1
	Standby (maximum)	125.0	100.0	117.0	156.8	111.0	148.8

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

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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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/Cl4 must be used

## 1100 Series 1104D-E44TAG2

## Standard ElectropaK Specification

#### Air inlet

Mounted air filter and turbocharger ÷.

#### Cooling system

- 22" belt-driven pusher fan and guards
- Radiator (incorporating air-to-air charge cooler)
- Water pump н.

#### Electric system

- 12 volt starter motor
- 12 volt, 65 amp alternator with DC output ÷.

#### Flywheel and housing

High inertia flywheel to SAE J620 Size 10/111/2 

SAE3 flywheel housing 

#### Fuel system

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

#### Literature

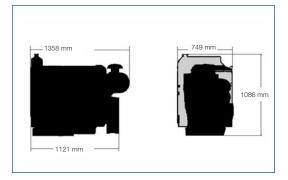
Users Handbook 

#### Lubrication system

- Wet cast iron sump with filler and dipstick
- Oil filter .

#### Start aids

Glow plugs



Fuel Consumption							
Power Rating %	1800 rev/min						
r ower riating 70	g/kWh	l/hr					
110	214.7	30.0					
100	216.3	27.7					
75	231.5	22.0					
50	253.1	16.0					

4 in-line

4.41 litres

4 stroke

flywheel

17 litres

chargecooled

Direct injection 16.2:1

Water-cooled

105 mm x 127 mm

Turbocharged air-to-air

Anti-clockwise viewed on

### **General Data**

Number of cylinders Bore and stroke Displacement Aspiration

Cycle Combustion system Compression ratio Rotation

Cooling system Total lubrication system 8 litres system capacity Total coolant capacity Dimensions

Dry weight

Wet weight

Length 1358 mm Width 749 mm Height 1086 mm 465 kg 474 kg

Final weight and dimensions will depend on completed specification.



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