



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-E44TAG1

Diesel Engine - ElectropaK

90.8 kW @ 1800 rev/min

Power to Meet your Needs

Hitting the key power nodes required by the market, the 1104D-E44TAG1 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	Type of Operation	Typical generator output (net)		Engine power			
(rev/min)				Gross		Net	
		kVA	kWe	kWm	bhp	kWm	bhp
1800	Prime Standby (maximum)	92.0 102.0	73.8 81.7	88.0 96.8	118.0 129.8	82.0 90.8	109.9 121.8

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

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)

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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Lubricating oil: multi-grade oil conforming to API-CH4/Cl4 must be used

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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

Electric system

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

Flywheel and housing

- High inertia flywheel to SAE J620 Size 10/11
- SAE3 flywheel housing

Fuel system

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

Literature

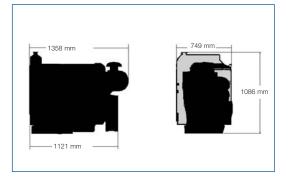
Users Handbook

Lubrication system

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

Start aids

Glow plugs



Fuel Consumption							
Power Rating %	1800 rev/min						
	g/kWh	l/hr					
110	220.8	25.5					
100	224.2	23.7					
75	237.7	18.7					
50	257.8	13.5					

General Data

Number of cylinders Bore and stroke Displacement Aspiration

Cycle Combustion system Compression ratio Rotation

Cooling systemWater-Total lubrication system8 litressystem capacity17 litreDimensionsLength

Dry weight Wet weight 4 in-line 105 mm x 127 mm 4.41 litres Turbocharged air-to-air chargecooled 4 stroke Direct injection 16.2:1 Anti-clockwise viewed on flywheel Water-cooled 8 litres

17 litres 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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