

3.152 Range

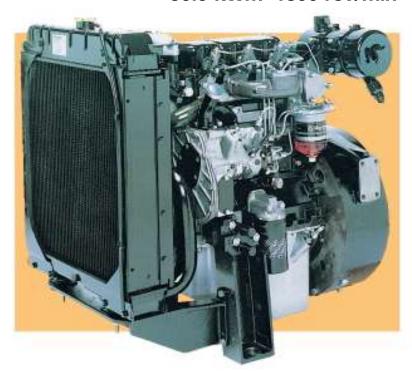
3.1524

Diesel Engine – ElectropaK

The Perkins 3.152 family of Electropak engines are undoubtedly the benchmark heavy duty three cylinder engines. Their reputation for performance and reliability is renowned throughout the power generation industry.

The 3.1524 is a naturally aspirated, 3 cylinder, 2.5 litre engine. It is an upgrade of the highly successful D3.152 ElectropaK giving increased performance but the same premium design features of the D3.152 to provide economic and durable operation, again offering the ideal characteristics for electrical power generation.

27.0 kWm 1500 rev/min 30.5 kWm 1800 rev/min



Economic power

- One side servicing for reduced service time and cost.
- Direct injection combustion technology and rotary fuel injection pump give high performance with excellent fuel economy.
- Rated speed is changeable between 1500rpm and 1800rpm allowing standard builds to operate at either 50Hz or 60Hz.

Reliable, durable power

• Proven in operation for over 10 years.

- Wherever a Perkins' ElectropaK engine is put into service, it will never be far from the support provided by a global network of 4000 distributors and dealers, all backed by a parts distribution centre giving 24 hour service, 365 days a year.
- Suitable for operation in ambient temperatures up to 46°C.
- Fuelled starting aid for temperatures down to -20°C.

Engine Speed	Type of Operation	Typical Generator Output (Net)		Engine P Gross		Power Net	
rev/min		kVA	kWe	kWm	bhp	kWm	bhp
1500	Prime power Standby power	27.5 30.0	22.0 24.0	25.0 27.5	33.5 37.0	24.5 27.0	33.0 36.0
1800	Prime power Standby power	30.5 34.0	24.5 27.0	28.0 31.0	37.5 42.0	27.5 30.5	37.0 41.0

All ratings data based on operation under ISO 3046 conditions using typical fan sizes and drive ratios. For operation outside of these conditions please consult your Perkins Engines contact. Performance tolerance quoted by Perkins is ±5%.

Electrical ratings assume a power factor of 0.8 and a generator efficiency of 89%.

Rating Definitions

Standard ElectropaK Specification

- · Base engine
- · Cast iron SAE 3 flywheel housing
- Flywheel
- · Rear well aluminium sump
- Mechanical governor speed control to BS5514 Class A1, ISO 3046-4M3
- · Rotary fuel injection pump
- · 12V shut off solenoid energised to run
- · Cold start aid
- · Spin-on full flow fuel oil filter
- · Fuel pre-filter
- · Spin-on full flow oil filter
- · Thermostat controlled cooling system
- · Belt driven water pump
- Fan drive and 15" pusher fan
- · Radiator (and piping)
- · Fan guards
- · Front engine mountings
- · 12V engine alternator
- · 12V starter motor
- · Air filter
- · Oil pressure switch
- · Coolant temperature switch

Optional Equipment

- 24V alternator
- 24V starter motor
- · Water temperature gauge and sender
- · Heater/starter switch
- · Rear engine mountings
- · Workshop manual
- · Parts book
- User handbook

Electropak General Data

Number of cylinders 3

Cylinder arrangement Vertical, in-line **Cycle** 4-stroke

Induction systemNaturally aspiratedCombustion systemDirect injectionCooling systemWater-cooledDisplacement2.5 litres

Bore and stroke 91.4 mm x 127.0 mm

Compression ratio 16.5:1

Direction of rotation Clockwise, viewed from the front

Firing order 1,2,3

Total lubrication

system capacity 6.17 litres

Coolant capacity

 (inc radiator)
 11.85 litres

 Total weight (dry)
 311 kg

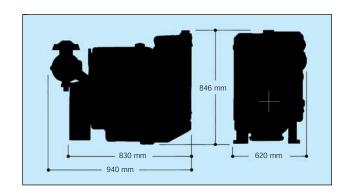
 Total weight (wet)
 328 kg

 Length
 940 mm

 Width
 620 mm

 Height
 846 mm

Fuel consumption litres/hour (UK gallons/hour)							
Power rating %	1500 rev/min	1800 rev/min					
110	8.2 (1.8)	9.6 (2.1)					
100	6.9 (1.5)	8.3 (1.8)					
75	5.1 (1.1)	6.2 (1.3)					
50	3.5 (0.7)	4.5 (1.0)					





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All information in this document is substantially correct at the time of printing but may be altered subsequently by the company.

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