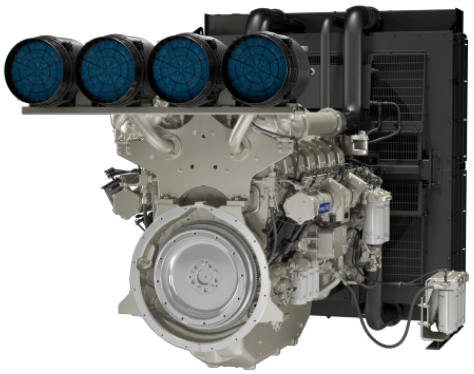
5012C-E46TAG

ElectropaK

U.S. EPA Stationary Emergency Engine, emits equivalent to U.S. EPA Tier 2
1252-1645 kW @ 1800 rpm (engine gross power)

The Perkins® 5012C-E46TAG has been designed to offer reliable power for the emergency standby and critical applications market, including data centres and hospitals among others.

Engineered and built specifically for the power generation market, the Perkins® 5000 Series is a power-packed engine range built to be dependable, versatile and offer lower emissions to meet regulatory standards.



Features and benefits

Maximised productivity

The 5000 Series delivers maximised productivity through outstanding load acceptance, achieving NFPA110 Type 10 and ISO 8528-5 G2 and G3 performance class and delivers high altitude capability. The engine build and performance have been designed with ultimate productivity and dependability in mind, so customers can be confident that power will be available when required.

Ease of integration and service accessibility

A single point customer electronics connection supports ease of integration and service accessibility is provided from a single side with two year oil and fuel service intervals.

Low daily operating costs

Excellent oil consumption through dedicated piston, ring and liner assembly and low fuel consumption deliver minimised daily operating costs.

Advanced technology

The 5000 Series utilises advanced technology, with full authority electronics, that easily integrate into the customer's chosen telematic solutions. We offer an optional closed crankcase ventilation system to reduce crankcase emissions further, if required.

Specification

Configuration	ElectropaK
Typical electrical output*, kVA (kWe)	1408-1876 kVA (1127-1501 kWe)
Cylinders	12 vee
Displacement, litres (in³)	45.84 (2797.3)
Aspiration	Turbocharged and air-to-air chargecooled
Bore and stroke, mm (in)	160 (6.3) x 190 (7.5)
Combustion system	Direct injection
Compression ratio	13.8:1
Aftertreatment	None
Total lubricating oil capacity, litres (US gal)	157.5 (41.61)
Total coolant capacity, litres (US gal)	221 (58.38)
Rotation (viewed from flywheel)	Anti-clockwise
Length x width x height, mm (in)	4143 × 2200 × 2273 (163.1 × 86.6 × 89.5)
Weight, kg (lb)	5860 (12919), dry 6230 (13735), wet

* Generator powers are typical and based on typical alternator efficiencies and a power factor (cos θ) or 0.8.

All information in this document is substantially correct at time of printing and may be altered subsequently.

Photographs are for illustrative purposes only and may not reflect final specification.
Final weight and dimensions will depend on completed specification.
Information subject to selected configuration, and subject to change without notice.
Engine power measured per ISO 14396:2002
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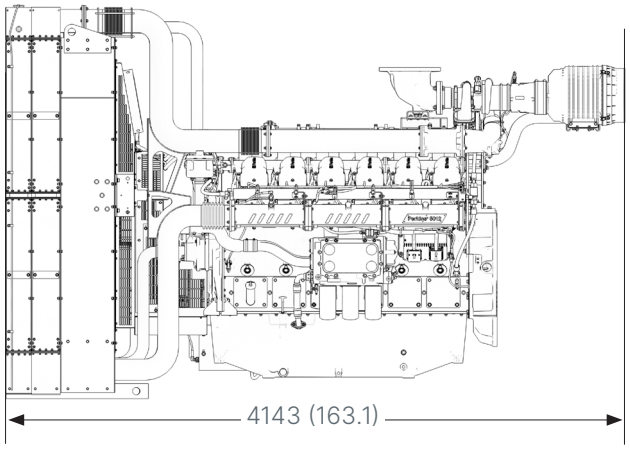
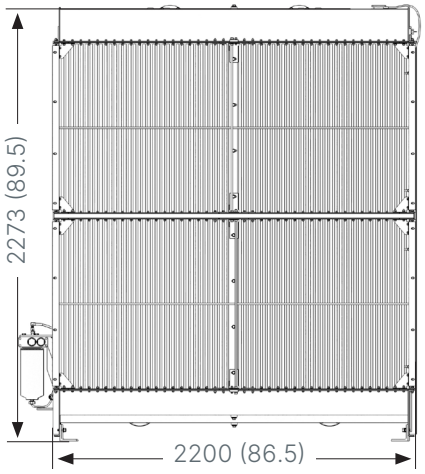
Standard equipment

Electro unit or ElectropaK	ElectropaK
Radiator fitted	✓
Fuel filter, engine mounted	✓
Water separator	Optional
Fuel water sight glass	✓
Fuel priming pump (manual/ electric)	Electric
WIF sensor	✓
Fuel cooler	✓
Air filter, engine mounted	✓
Engine ECM, engine mounted	✓
Wiring harness to ECM	✓
Wiring harness (all connectors to single customer interface)	✓
Starter motor	✓
Battery charging alternator	✓
Flywheel housing	✓
Flywheel	18"/21"
Fan	✓
Fan guard	✓
Temperature and oil pressure for automatic stop/alarm configurable	✓

Dimensions





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