

1100 Series 1106C-70TA Industrial

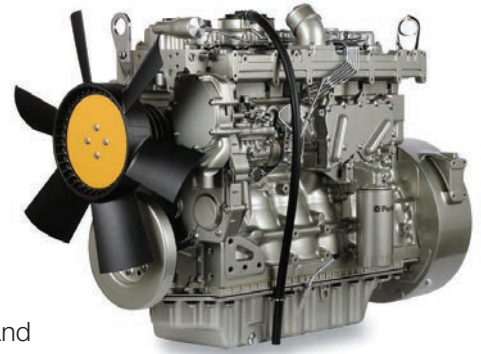
112-162 kW / 150-217 hp

The 1106C provides a common solution to meeting the EU Stage II and U.S. EPA Tier 2 emissions regulations, providing a choice of solutions from the Perkins® 1100 Series diesel engine platform.

These clean engines are assembled around optimal, efficient manufacturing processes with state-of-the-art technology. They are built to provide the exact power solution for customers who sell their applications into lesser regulated countries.

The new engines boast considerable increases to delivered power, torque and noise reduction. These have been achieved through changes to the manifold and combustion areas, turbocharger geometry, increased cylinder displacement.

Focusing on our common platform theme, changes to engine envelope dimensions and connection points have been kept to a minimum.



Emissions

Designed to fully comply with stringent emissions regulations, European EU Stage II/U.S. EPA Tier 2.

| Specification | | |
|----------------------------|------------------------------------|-----------------------|
| Number of cylinders | 6 vertical in-line | |
| Bore and stroke | 105 x 135 mm | 4.13 x 5.3 in |
| Displacement | 7.01 litres | 427.7 in ³ |
| Aspiration | Turbocharged aftercooled | |
| Cycle | 4 stroke | |
| Combustion system | Direct injection | |
| Compression ratio | 18.2:1 | |
| Rotation | Anti-clockwise, viewed on flywheel | |
| Total lubricating capacity | 13-16 litres | 3.4-4.2 US gal |
| Cooling system | Liquid | |
| Total coolant capacity | 15.2 litres | 4 US gal |

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 **Perkins®**

THE HEART OF EVERY GREAT MACHINE

1100 Series 1106C-70TA Industrial

112-162 kW / 150-217 hp

Features and benefits

Powered by your needs

- The Perkins 1106C-70TA delivers up to 162 kW (217 bhp) and the 1106D-70TA delivers up to 129 kW (172 bhp) and over 750 Nm (553 lb-ft) of torque, providing greater productivity through an improved power to weight ratio
- The availability of a large range of build options enables the product to be tailored to specific customer needs. Options include an SAE B PTO, providing up to 63 kW (85 bhp)

Worldwide power solution

- The 1106C and 1106D have been designed to be worldwide fuel tolerant, including kerosene, jet aviation fuel and 20% biofuel (RME). Options are available to meet local market needs

Low installation costs

- The 1106C and 1106D are part of the Perkins common platform of engines, maintaining a variety of hook-up points similar to the EU Stage IIIB and U.S. EPA Tier 4 Interim 1206E-E70TTA. This commonality reduces the cost impact for the customer during the changeover process

Low operating costs

- Service intervals are set at 500 hours as standard

- **Warranties and Service Contracts**

We provide one-year warranties for constant speed engines and two-year warranties for variable speed models, as standard. These are supported by multilevel Extended Service Contracts that can be bought additionally.

Discover more: www.perkins.esc

- Low usage warranty package is also available

World class product support

- Through an experienced global network of distributors and dealers, fully trained engine experts deliver total service support around the clock, 365 days a year. They have a comprehensive suite of web based tools at their finger tips, covering technical information, parts identification and ordering systems, all dedicated to maximising the productivity of your engine
- Perkins actively pursues product support excellence by insisting our distribution network invest in their territory to provide you with a consistent quality of support across the globe
- Throughout the entire life of a Perkins engine, we provide access to genuine OE specification parts giving 100% reassurance that you receive the very best in terms of quality for lowest possible cost... wherever your Perkins powered machine is operating in the world
- To find your local distributor: www.perkins.com/distributor

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Technical information

- Engine ratings
- SAE B PTO Drive
- Timing case and gear driven auxiliaries
- Flywheel housings
- Flywheel and starter rings
- Oil filter positions
- Adapter plates
- Starter motors
- Fan drives and locations
- Sound isolated lubricating oil sumps
- Lubricating oil filters and breathers
- Front-end drives
- Alternators
- Belt driven auxiliaries
- Induction manifolds
- Exhaust manifolds
- Fuel filter positions
- Cold start aids
- Engine mountings
- Power and torque curve tailoring
- Cooling packs
- Control panel
- Air compressor

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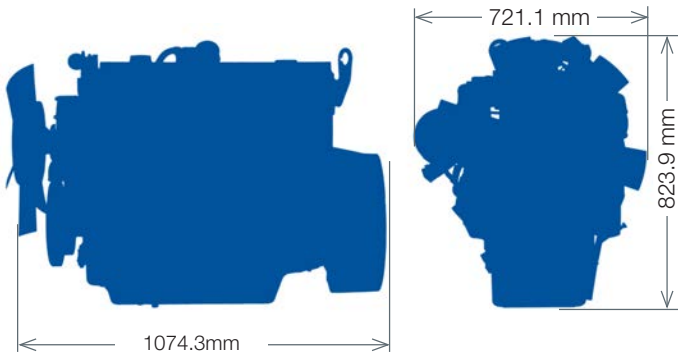
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Engine package weights and dimensions with side-mounted turbocharger

| | | |
|--------------|-----------|---------|
| Length | 1074.3 mm | 42.3 in |
| Width | 721.1 mm | 28.3 in |
| Height | 823.9 mm | 32.4 in |
| Weight (dry) | 704 kg | 1551 lb |

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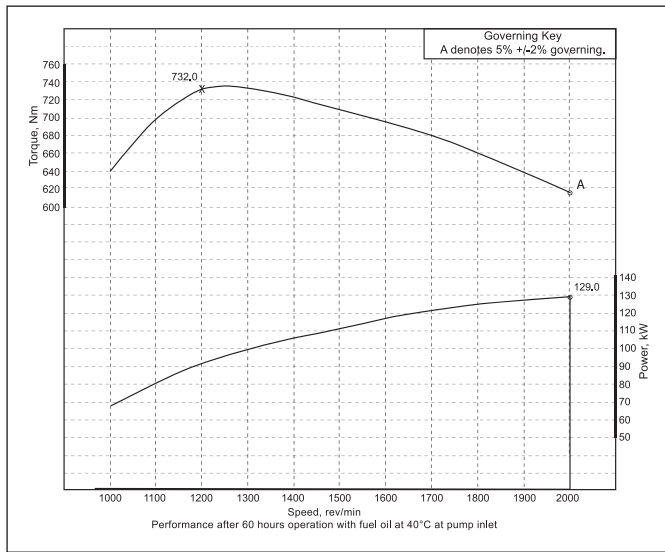
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| Speed rpm | Power kW | Power hp | Speed rpm | Torque Nm | Torque lb·ft | Rating type |
|-----------|----------|----------|-----------|-----------|--------------|-------------|
| 1200 | 112 | 150 | 1200 | 687 | 507 | C |
| 1400 | *129 | 172 | 1400 | 687 | 507 | C |
| 1400 | 137 | 183 | 1400 | 725 | 534 | C |
| 1400 | 145 | 194 | 1400 | 775 | 571 | C |
| 1400 | 162 | 217 | 1400 | 900 | 664 | C |

* curve shown

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