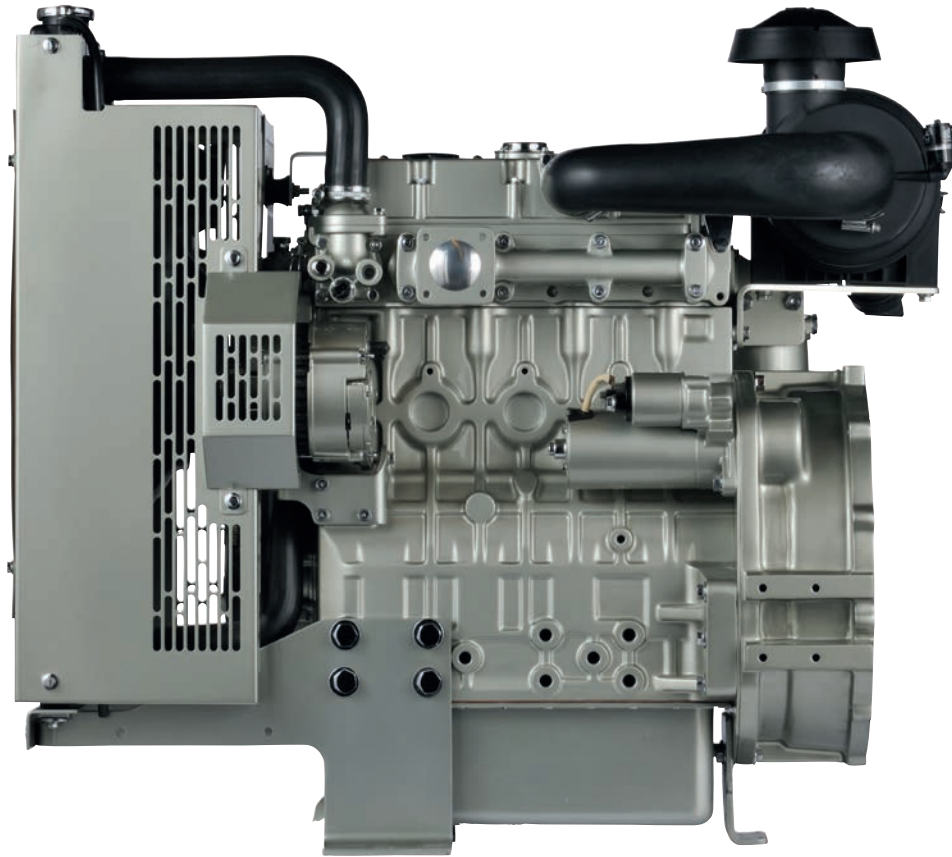


The 400 Series



Whatever your needs,
we have an engine

At Perkins, we offer a full range of diesel engines for the off-highway market. Together, we are able to support you with the knowledge, capabilities and global resources you need to streamline your development process and deliver your business strategy.

If you have any questions, or need more information about any of the Perkins products, please contact your Perkins representative.

Visit us at www.perkins.com



Telecoms towers

Perkins



400
Series

0.5 to 2.2 litre

A complete
engine range
for telecoms towers

Meeting all key
power nodes
between 5-40 kVA

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 **Perkins®**

THE HEART OF EVERY GREAT MACHINE

The perfect solution

With the addition of two new variable speed models, 1.5 and 2.2 litre, our 400 Series range meets all key power nodes in the 5-40 kVA power band. This complete product line-up makes it the perfect solution to power your telecoms projects.

As well as having the flexibility to integrate into any of the multiple solutions required for these applications, our focus has been to reduce operating costs to end users; enabling us to deliver significant lower cost of ownership benefits across our 400 Series range.

The result is a competitive offering that can reduce service intervals, improve fuel consumption, lower inventory costs and operate in any territory, no matter how remote the location.

One global partner

Perkins engines are trusted by OEMs worldwide, however we are far more than an engine manufacturer. We are here to support you at every stage of your engine selection process with an unmatched breadth and depth of hardware, knowledge and global resources.

With every Perkins engine, quality, reliability and consistency are assured. Our facilities worldwide employ the same efficient processes, the same tested and validated components, and the same stringent quality controls you need to achieve your global product strategy.

To help you reduce operational costs and increase customer loyalty, we also have the right network in place to deliver global product support. You can always count on our distributors to deliver Perkins Genuine Parts and Service to take the best care of your engine.

Maximising customer value



Integrated solutions

Reliability is critical to your reputation. These engines are proven in the field to deliver consistent high performance and are designed to meet the most stringent emissions standards. For example, engineered to operate at prime and standby power, they will integrate into whichever telecoms solution you are installing:

- On grid with generator set back-up
- Off-grid with continuous running generator set
- Generator set and battery hybrid solution
- Generator set, battery and solar hybrid solution

Low cost of ownership

We focus on delivering product and service excellence, with reduced owner costs and a range of operating benefits.

- **Changeable ratings** from 50 Hz to 60 Hz on multiple models - reducing inventory costs
- **Increased service intervals** from 500-1,000 hours with no kits - reducing operating costs to end users
- **Full range** of variable speed engines to support hybrid installations, enabling:
 - Reduced running hours
 - Reduced service frequency

Trusted reliability

- Over one million 400 Series engines produced since 2001
- Dependable product support network. Over 3,500 outlets worldwide providing support and parts wherever you are in the world
- Mechanical fuel system for increased fuel quality tolerance
- Prolonged engine life, using Genuine Perkins parts, diesel engine oil and coolant

Complete product line-up

	Displacement (litres)	Cylinders	Model	Governing	Power	
					kWm	kVA
Constant speed	0.5	2	402D-05	Mechanical	4.5-5.0	4.3-4.8
	0.7	3	403D-07	Mechanical	5.4-7.3	5.8-7.8
	1.1	3	403A-11 403D-11	Mechanical	8.0-11.0	9.0-12.0
	1.5	3	403A-15 403D-15	Mechanical	10.0-18.0	13.0-20.0
	2.2	4	404A-22 404D-22	Mechanical	18.0-36.0	20.0-40.0

Use of Perkins variable speed engines in a hybrid generator solution could result in a reduction in fuel consumption of over 45%*

	Displacement (litres)	Cylinders	Model	Governing	Maximum power	
					kWm	kVA
Variable speed	0.7	3	403D-07	Mechanical (E-governor kit capable)	13.2	14.0
	1.1	3	403D-11	Mechanical (E-governor kit capable)	19.7	20.0
	1.5 New!	3	403D-15	Mechanical (E-governor kit capable)	25.1	27.0
	2.2 New!	4	404D-22	Mechanical (E-governor kit capable)	36.3	40.0

* Fuel consumption may vary depending on many factors including ambient temperature, fuel specification, oil specification, equipment age, maintenance, and manufacturing tolerances

- All ratings are for guidance only, please refer to the specific engine technical data sheet for final powers
- Electrical output is based on assumed alternator efficiency and is for guidance only
- Variable speed engines factory setting is 3000 rpm (404D-22 is 2800 rpm)
- Perkins electronic governor (E-Gov) allows for precise engine speed control, resulting in improved stability and response time

