

*Reliability.
High performance.
Peace of mind.*

**All in one
package.**



● **THE NEW**
5000 SERIES

perkins.com/5000series

Together, we power ahead.

 **Perkins®**

Perkins largest fully electronic engine for Electric Power.

The 5000 Series is specifically designed to deliver dependable power for industries and applications where reliability is critical.

Comprehensive validation and durability testing, encompassing operation across extreme temperature ranges and real world operating cycles, has proven that the 5000 Series maintains reliable performance under the most demanding environmental conditions.

To provide proven prime and backup power to critical applications like hospitals, data centres and remote worksites, we had to rethink the way we design our electric power engines.

So, we ensured that the design of the product was created with the end customer in mind. This means the engines were designed with simplified usability and servicing.

Redesigned core engine components mean the 5000 Series delivers more power, more quickly. We know step load/acceptance is an extremely important factor for our customers. This engine range meets G3 requirements.

Load Acceptance

Through its enhanced load acceptance capabilities, the 5000 Series delivers immediate power meeting ISO85525-5, G2 and G3- making it an ideal fit for both critical applications, when configured and operated in accordance with Perkins specifications, and as a stable power source for seamless power when you need it most.



5006
(750-900 kVA)



5008
(910-1250 kVA)



5012
(1275-1875 kVA)



5016
(1750-2500 kVA)

Engine model	kVA@50Hz Prime		kWe@60Hz Standby		Emissions		
	Prime	Standby	Prime	Standby	Unregulated	Tier 2 compliant (China III)	US Tier 2 (EPA only)
5006-E23TAG1	750	825			●	●	
5006-E23TAG2	800	800			●	●	
5008-E30TAG1	910	1000			●	●	
5008-E30TAG2	1010	1125			●	●	
5008-E30TAG3	1125	1250			●	●	
5008-E30TAG4			810	900			●
5008-E30TAG5			900	1000			●
5012-E46TAG1	1275	1400			●	●	
5012-E46TAG2	1350	1500			●	●	
5012-E46TAG3	1500	1650			●	●	
5012-E46TAG4	1710	1875			●	●	
5012-E46TAG5			1125	1250			●
5012-E46TAG6			1350	1500			●
5016-E61TRG0	1750	1925					
5016-E61TRG1	1850	2000			●	●	
5016-E61TRG2	2000	2250			●	●	
5016-E61TRG3	2250	2500			●	●	
5016-E61TRG6			1500	1750			●
5016-E61TRG7			1710	2000			●

Power you can depend on.

The 5000 Series is engineered specifically for the power generation industry to supply critical applications with dependable prime or standby power, where reliability is critical.

The most powerful and largest fully electronic, electric power range from Perkins, the 5000 Series has been designed to optimise customers' needs for quick, reliable and cost-effective power, while delivering reliability, high performance and peace of mind.

Built to world-class standards for high efficiency, low fuel consumption and global emission standards, the engine range has been optimised and tested to deliver cost-effective, reliable performance and lower total cost of ownership.

So far over 200,000 hours of real-life testing hours

have been achieved, alongside over 20,000 hours of durability testing, as part of the full generator set and base engine development.

The 5000 Series uses a unique low-pressure fuel system developed specifically for the range so it is more tolerant of variations in fuel quality and can run with biodiesel up to B35 based on a 35 percent dilution of biodiesel with standard diesel or on 100 percent hydrotreated vegetable oil (HVO). To preserve the performance and integrity of the engine whilst reducing the risk of downtime or failure, fuels must meet the specifications and characteristics described in official Perkins fluids guideline documents found on www.perkins.com.

No matter when and where it's needed, the 5000 Series delivers robust, on-demand power, so daily life doesn't miss a beat.



A better solution at every turn.

Providing reliable electric power for critical applications means leveraging a combination of performance, flexibility, insight and dependability that enables the right amount of power to be ready when it is required.

Electronic MEUI-C injectors

Piston, ring, liner optimised

Full authority ECM

Increased Compression Ratio to 14:1 to improve cold start

Robust sealing system with 14 improved critical joints to prevent leaks

Extended electronic sensor package enabling telematics solutions for remote monitoring



Closed crankcase ventilation lowers crankcase emissions

750 / 2 years oil service

Optimised turbochargers and cam shafts to improve airflow

Plate type oil cooler

High efficiency fuel filtration with 4-micron filters and water in fuel (WIF) sensor

Customer interface harness

Ease of service for oil filter, single side service on 5006/5008

Perkins Sales

Americas

North America

1600 W Kingsbury St
Seguin
Texas 78155
United States
Toll free number: 1-888-PERK-ENG

South America

Rua Dr. Chucri Zaidan, 1240
Golden Tower – 17th Floor
São Paulo – SP CEP 04711-130
Brazil
Tel: +55 11 2109 2038

Asia

China

20/F Lei Shing International Plaza
1319 West Yan'an Road
Shanghai 200050
China
Tel: +86 21 22160774
Fax: +86 21 52136624

Japan

Ocean Gate Minato Mirai 12F
3-7-1 Minatomirai, Nishi-ku, Yokohama city
Kanagawa, 220-0012
Japan
Tel: +81 45 682 3579
Fax: +81 45 682 3690

Korea

8F, Songchon Building, 503
Nonhyeon-ro, Gangnam-gu
Seoul 06132
Korea
Tel: +82 10 8669 8358

India

Floor 6, Tower 'B' Prestige Shantiniketan
The Business Precinct, Whitefield Main Road
Bangalore 560048
India
Email: IPSD_India@perkins.com

Singapore

14 Tractor Road
Singapore 627973
Tel: +65 6828 7469
Fax: +65 6828 7414

Europe, Middle East and Africa

Frank Perkins Way
Peterborough, PE1 5FQ
United Kingdom
Tel: +44 1733 583000