

New 1000 Series

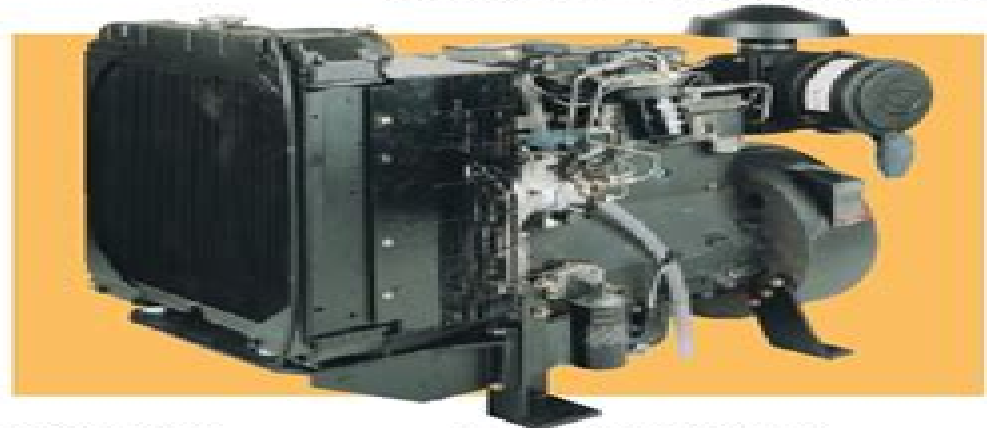
1004-42

Diesel Engine – Electropak

45.0 kWm 1500 rev/min
51.5 kWm 1800 rev/min

Renowned throughout the power generation industry for their superior performance and reliability, the latest Perkins 1000 Series diesel Electropak easily satisfies the requirements of US EPA mobile off-highway legislation and TA Luft regulations.

The 1004-42 is a compact, naturally aspirated, 4 cylinder, larger capacity member of the family. Premium design features ensure economic and durable operation while providing the ideal characteristics for electrical power generation.



Clean, efficient power

- Operator and environmentally sensitive with low noise, rapid startability and low emissions satisfying US EPA, mobile off-highway legislation and TA Luft requirements.

Reliable power

- Suitable for operation in ambient temperatures up to 45 °C if a canopy is fitted.
- Fuelled starting aid for quick starting at temperatures down to -25 °C.
- 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.

Durable power

- Maximum cooling efficiency is provided by a high capacity water pump.
- Leak free operation is ensured by Vitec crankshaft seals and sophisticated controlled seal joints, giving protection in the toughest conditions.
- Inserted valve seats enhance engine life.

Economic power

- Single side servicing and up to 500 hour oil and filter change reduces service time, cost and enhances equipment availability.
- Perkins advanced Fastram combustion system ensures high power with low specific fuel consumption and very low levels of noise.

Engine Speed rev/min	Type of Operation	Typical Generator Output (Net)		Engine Power			
		kVA	kWe	kWm	Gross bhp	Net kWm	Net bhp
1500	Prime power	46.5	37.0	42.0	56.5	41.0	55.0
	Standby power	50.5	40.5	46.0	61.5	45.0	60.5
1800	Prime power	53.0	42.5	48.0	64.5	47.0	63.0
	Standby power	58.0	46.5	53.0	71.0	51.5	69.0

All ratings data based on operation under ISO 3006 test 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 90%.

Rating Definitions

Prime power – Power available at variable load in lieu of main power network. An overload of 10% is permitted for one hour in every twelve hours of operation.

Standby power – Power available at variable load in the event of a main power network failure. No overload is permitted.

Perkins 1004 Engine Manual

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Table of Contents Perkins 1004 Engine Manual

1. Understanding the eBook Perkins 1004 Engine Manual
 - The Rise of Digital Reading Perkins 1004 Engine Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Perkins 1004 Engine Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Perkins 1004 Engine Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Perkins 1004 Engine Manual
 - Personalized Recommendations
 - Perkins 1004 Engine Manual User Reviews and Ratings
 - Perkins 1004 Engine Manual and Bestseller Lists
5. Accessing Perkins 1004 Engine Manual Free and Paid eBooks
 - Perkins 1004 Engine Manual Public Domain eBooks
 - Perkins 1004 Engine Manual eBook Subscription Services
 - Perkins 1004 Engine Manual Budget-Friendly Options
6. Navigating Perkins 1004 Engine Manual eBook Formats

- ePub, PDF, MOBI, and More
- Perkins 1004 Engine Manual Compatibility with Devices
- Perkins 1004 Engine Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Perkins 1004 Engine Manual
 - Highlighting and Note-Taking Perkins 1004 Engine Manual
 - Interactive Elements Perkins 1004 Engine Manual
- 8. Staying Engaged with Perkins 1004 Engine Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Perkins 1004 Engine Manual
- 9. Balancing eBooks and Physical Books Perkins 1004 Engine Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Perkins 1004 Engine Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Perkins 1004 Engine Manual
 - Setting Reading Goals Perkins 1004 Engine Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Perkins 1004 Engine Manual
 - Fact-Checking eBook Content of Perkins 1004 Engine Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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