Gas engine GS16R2-PTK

Applications
• Power Generation and Cogeneration
• Durable and Reliable
• Heart of Modular Energy Packages

Features
• 1.5 MW* high-output & high-efficiency natural gas engine
• Range of Lean burn and Miller Cycle engines available
• Proven high-efficiency, high compression ratio proprietary turbocharger technology

Specifications
• 1.5 MW output at 1500rpm / 1 MW output at 1200rpm
• 42.1% efficiency, world’s top level for 1.5 MW gas engine class
The newly developed 1.5 MW gas engine incorporates a Miller cycle system with larger compression which results in better thermal efficiency. By using computational fluid dynamics (CFD), a combustion strategy that can achieve both low NOx and high combustion efficiency is assured. Our own combustion control technology, with minimum knock margin improving thermal efficiency in combination with an optimized air-fuel ratio control technology, enables an initial load acceptance of 30%. This is the world’s highest level for lean-burn engines.

Our engine control technology enables a 100% load acceptance within two minutes after Blackout Start.

In addition to a conventional cooling tower, a combustion technology which also works with a remote radiator was employed to ensure reliable operation even during water outages.

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