



7HA.01/.02 GAS TURBINE

The World's Largest and Most Efficient Heavy Duty Gas Turbine

GE's 7HA gas turbine is the industry leader among H-class offerings, and is available in two models—the 7HA.01 at 275 MW and the 7HA.02 at 337 MW. Thanks to a simplified air-cooled architecture, advanced materials, and proven operability and reliability, the 7HA delivers the lowest life cycle cost per MWh for 60-Hz applications. The economies of scale created by this high power density gas turbine, combined with its more than 61% combined-cycle efficiency, enable the most cost-effective conversion of fuel to electricity to help operators meet increasingly dynamic power demands.



Industry-Leading Operational Flexibility for Increased Dispatch and Ancillary Revenue

- Fast 30-minute rampup from start, connected to gas turbine full load.
- 50 MW/minute ramping capability within emissions compliance.
- Reaches loadline as low as 25% of gas turbine base-load output within emissions compliance.
- Fuel flexible to accommodate gas and liquid fuels with wide gas variability, including high ethane (sublet) gas and liquefied natural gas.

Least Complex H-Class Offering

- A simpler configuration than GE's previous H-class fleet and one that does not require a separate cooling air system.
- The 7HA is now available with an air-cooled generator for simplified installation and maintainability.
- Modular systems ease installation with 10,000 fewer man-hours than GE's 7FA.03 gas turbine.
- Streamlined maintenance with quick-removal turbine roof, field-replaceable blades, and 100% bore-scope inspect tool coverage for all blades.
- Simplified dual fuel system uses less water, eliminates recirculation, and utilizes enhanced liquid purge for improved reliability and dependability.

Full-Load Validation

- At the heart of GE's heavy-duty gas turbine validation program is the advanced full-scale, full-load test facility in Greenville, SC.
- Test stand enables GE to validate the 7HA gas turbine over an operating envelope larger than the variances an entire fleet of turbines would experience in the field, an approach that is superior to operating a field prototype for 8,000 hours.

275-337 MW Simple-cycle
Output
>61% COMBINED CYCLE EFFICIENCY

	7HA.01	7HA.02
Frequency	60	60
SC Net Output (MW)	275	337
SC Net Heat Rate (Btu/kWh, LHV)	8,240	8,019
SC Net Heat Rate (kJ/kWh, LHV)	8,694	8,462
SC Net Efficiency (% LHV)	63.9%	61.0%
Exhaust Energy (MMBtu/hr)	1,150	1,020
Exhaust Energy (MWth)	1,345	1,199
GT Turndown - Minimum Load (%)	20%	20%
GT Ramp Rate (MW/min)	50	50
MOs Operated at Base Load (0.1% Cpl)	25	25
CO Emissions at 90% Turndown (ppm, 25°C wet)	5	5
Wobbe Variation (%)	+/-30%	+/-30%

Power Plant Configuration	1x1 MS 7HA.01	1x1 MS 7HA.02
CC Net Output (MW)	405	500
CC Net Heat Rate (Btu/kWh, LHV)	570	538
CC Net Heat Rate (kJ/kWh, LHV)	5,877	5,634
CC Net Efficiency (% LHV)	63.3%	61.7%
Bottoming Cycle Type	3P634	3P634
Plant Turndown - Minimum Load (%)	17%	17%
Ramp Rate (MW/min)	50	50
Startup Time (Hot, Minutes)	<30	<30

Power Plant Configuration	2x1 MS 7HA.01	2x1 MS 7HA.02
CC Net Output (MW)	817	1,000
CC Net Heat Rate (Btu/kWh, LHV)	5,540	5,530
CC Net Heat Rate (kJ/kWh, LHV)	5,845	5,833
CC Net Efficiency (% LHV)	63.8%	61.5%
Bottoming Cycle Type	3P634	3P634
Plant Turndown - Minimum Load (%)	16%	23%
Ramp Rate (MW/min)	100	100
Startup Time (Hot, Minutes)	<30	<30

Frame 6 Gas Turbine Instruction Manual

S Ashworth



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Table of Contents Frame 6 Gas Turbine Instruction Manual

1. Understanding the eBook Frame 6 Gas Turbine Instruction Manual
 - The Rise of Digital Reading Frame 6 Gas Turbine Instruction Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Frame 6 Gas Turbine Instruction 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 Frame 6 Gas Turbine Instruction Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Frame 6 Gas Turbine Instruction Manual
 - Personalized Recommendations
 - Frame 6 Gas Turbine Instruction Manual User Reviews and Ratings
 - Frame 6 Gas Turbine Instruction Manual and Bestseller Lists
5. Accessing Frame 6 Gas Turbine Instruction Manual Free and Paid eBooks
 - Frame 6 Gas Turbine Instruction Manual Public Domain eBooks
 - Frame 6 Gas Turbine Instruction Manual eBook Subscription Services
 - Frame 6 Gas Turbine Instruction Manual Budget-Friendly Options

6. Navigating Frame 6 Gas Turbine Instruction Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Frame 6 Gas Turbine Instruction Manual Compatibility with Devices
 - Frame 6 Gas Turbine Instruction Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Frame 6 Gas Turbine Instruction Manual
 - Highlighting and Note-Taking Frame 6 Gas Turbine Instruction Manual
 - Interactive Elements Frame 6 Gas Turbine Instruction Manual
8. Staying Engaged with Frame 6 Gas Turbine Instruction Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Frame 6 Gas Turbine Instruction Manual
9. Balancing eBooks and Physical Books Frame 6 Gas Turbine Instruction Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Frame 6 Gas Turbine Instruction Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Frame 6 Gas Turbine Instruction Manual
 - Setting Reading Goals Frame 6 Gas Turbine Instruction Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Frame 6 Gas Turbine Instruction Manual
 - Fact-Checking eBook Content of Frame 6 Gas Turbine Instruction 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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