



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 turndown 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 (wet) 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 TF03 gas turbine.
- Streamlined maintenance with quick-removal turbine roof, field-replaceable blades, and 100% borescope inspection 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)	61.4%	61.6%
Exhaust Energy (MMBtu/hr)	1,150	1,629
Exhaust Energy (MWth)	1,345	1,799
GT Turndown - Minimum Load (%)	25%	40%
GT Ramp Rate (MW/min)	50	50
MOs Operated at Base Load (80.1% Cpl)	25	25
CO Operated at 90% Turndown (60.8% Efficiency)	9	9
Wobbe Variation (%)	+/-30%	+/-10%

	1x1 MS 7HA.01	1x1 SS 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)	61.3%	61.7%
Bottoming Cycle Type	3P604	3P604
Plant Turndown - Minimum Load (%)	13%	47%
Ramp Rate (MW/min)	50	50
Startup Time (Hot, Minutes)	<30	<30

	2x1 MS 7HA.01	2x1 SS 7HA.02
CC Net Output (MW)	817	1,000
CC Net Heat Rate (Btu/kWh, LHV)	5,540	5,538
CC Net Heat Rate (kJ/kWh, LHV)	5,845	5,833
CC Net Efficiency (% LHV)	60.8%	61.5%
Bottoming Cycle Type	3P604	3P604
Plant Turndown - Minimum Load (%)	16%	23%
Ramp Rate (MW/min)	100	100
Startup Time (Hot, Minutes)	<30	<30

Ge Gas Turbine Frame 5 Manual

David C Thomas, Sally M Benson



Ge Gas Turbine Frame 5 Manual:

Manuals Combined: 50 + Army T-62 T-53 T-55 T-700 AVIATION GAS TURBINE ENGINE Manuals , Over 70 350 Mbs U S Army Repair Maintenance and Part Technical Manuals TMs related to U S Army helicopter and fixed wing turbine aircraft engines as well as turbine power plants generators Just a SAMPLE of the CONTENTS ENGINE AIRCRAFT TURBOSHAFT MODELS T700 GE 700 T700 GE 701 T700 GE 701C 1 485 pages TURBOPROP AIRCRAFT ENGINE 526 pages ENGINE GAS TURBINE MODEL T55 L 712 997 pages ENGINE ASSEMBLY GAS TURBINE GTCP36 150 BH GTCP36 150 BH 324 pages ENGINE AIRCRAFT GAS TURBINE T63 A 5A T63 A 700 144 pages ENGINE AIRCRAFT GAS TURBINE MODEL T63 A 720 208 pages ENGINE AIRCRAFT TURBOSHAFT T703 AD 700 T703 AD 700A T703 AD 700B 580 pages ENGINE ASSEMBLY T700 GE 701 247 pages ENGINE ASSEMBLY GAS TURBINE GTCP3645 H 214 pages ENGINE AIRCRAFT GAS TURBINE MODEL T63 A 720 208 pages GAS TURBINE ENGINE AUXILIARY POWER UNIT APU MODEL T 62 T 40 1 344 pages ENGINE ASSEMBLY T700 GE 700 243 pages SANDY ENVIRONMENT AND OR COMBAT OPERATIONS FOR T53 L 13B T53 L 13BA AND T53 L 703 ENGINES 112 pages DUAL PURPOSE MOBILE CHECK AND ADJUSTMENT GENERATOR STAND FOR T62T 2A AND T62T 2A1 AUXILIARY POWER UNITS T62T 40 1 AND T62T 2B AUXILIARY POWER UNITS 193 pages Others included POWER PLANT UTILITY GAS TURBINE ENGINE DRI LIBBY WELDING CO MODEL LPU 71 FSN 6115 937 0929 NON WINT AND 6115 134 0825 WINTERIZED POWER PLANT UTILITY MUST GAS TURBINE ENGINE DRIVEN AIRESEARCH CO MODEL NO PPU85 5 LIBBY WELDING CO MODEL NO LPU 71 AME CORP MODEL APP 1 AND HOLLINGSWORTH CO MODEL NO JHTWX10 9 NSN 6115 00 937 0929 NON WINTERIZED AND 6115 00 134 0825 WINTERIZED POWER PLANT UTILITY MUST GAS TURBINE ENGINE DRIVEN AIRESEA MODEL PPU85 5 LIBBY WELDING CO MODEL LPU 71 AMERTECH CO MODEL APP 1 AND HOLLINGSWORTH CO MODEL JHTWX10 96 NSN 6115 00 937 0929 NON WINTERIZED AND 6115 00 134 0825 WINTERIZED GENERATOR SET GAS TURBINE ENGINE DRIVEN TACTICAL SKID MTD 1 400 HZ ALTERNATING CURRENT GENERATOR SET GAS TURBINE ENGINE 45 KW AC 120 208 AND 240 4 3 PHASE 4 WIRE SKID MTD WINTERIZED AIRESEARCH MODEL GTGE 70 FSN 6115 075 1639 POWER PLANT UTILITY MUST GAS TURBINE ENGINE DRIVEN AIRESEARCH CO MOD PPU85 5 LIBBY WELDING CO MODEL LPU 71 AMERTECH CORP MODEL APP 1 AND HOLLINGSWORTH CO MODEL JHTWX 10 96 NSN 6115 00 937 0929 NONWINTERIZED AND 6115 00 134 0825 WINTERIZED POWER PLANT UTILITY GAS TURBINE ENGINE DRIVEN AMERTECH CORP MODEL APP 1 POWER PLANT UTILITY GAS TURBINE ENGINE DRIVEN LIBBY WELDING CO MODEL LPU 71 POWER UNIT UTILITY PACK GAS TURBINE ENGINE DRIVEN AIRESEARCH MODEL PPU85 5 TYPE A AVIATION UNIT AND INTERMEDIATE MAINTENANCE FOR GAS TURBINE ENGI AUXILIARY POWER UNIT APU MODEL T 62T 2B PART NO 161050 10 NSN 2835 01 092 2037 AVIATION UNIT AND INTERMEDIATE MAINTENANCE REPAIR PARTS AND SPE TOOLS LIST INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIA FOR GAS TURBINE ENGINE

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Over the past decade the prospect of climate change resulting from anthropogenic CO2 has become a matter of growing public concern Not only is the reduction of CO2 emissions extremely important but keeping the cost at a manageable level is a prime priority for companies and the public alike The CO2 capture project CCP came together with a common goal in mind find a technological process to capture CO2 emissions that is relatively low cost and able to be expanded to industrial applications The Carbon Dioxide Capture and Storage Project outlines the research and findings of all the participating companies and associations involved in the CCP The final results of thousands of hours of research are outlined in the book showing a successful achievement of the CCP's goals for lower cost CO2 capture technology and furthering the safe reliable option of geological storage The Carbon Dioxide Capture and Storage Project is a valuable reference for any scientists industrialists government agencies and companies interested in a safer more cost efficient response to the CO2 crisis Succeeds in tackling the most important issues at the heart of the CO2 crisis lower cost and safer solutions and making the technology available at an industrial level Contains technical papers and findings of all researchers involved in the CO2 capture and storage project CCP Consolidates thousands of hours of research into a concise and valuable reference work providing up to the minute information on CO2 capture and underground storage alternatives Gas Turbines for Electric Power Generation S. Can Gülen, 2019-02-14 In this essential reference both students and practitioners in the field will find an accessible discussion of electric power generation with gas turbine power plants using quantitative and qualitative tools Beginning with a basic discussion of thermodynamics of gas turbine cycles from a second law perspective the material goes on to cover with depth an analysis of the translation of the cycle to a final product facilitating quick estimates In order to provide readers with the knowledge they need to design turbines effectively there are explanations of simple and combined cycle design considerations and state of the art performance prediction and optimization techniques as well as rules of thumb for design and off design performance and operational flexibility and simplified calculations for myriad design and off design performance The text also features an introduction to proper material selection manufacturing techniques and construction maintenance and operation of gas turbine power plants **Proceedings of the ... ASME Joint U.S.-European Fluids Engineering Conference** ,2002 *Aircraft Gas Turbine Engine Technology* Irwin E. Treager, 1970 Power ,1917

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