

LM2500+ Marine Gas Turbine



GE's LM2500+ gas turbine is based on the industry standard-setting GE LM2500 marine gas turbine. The LM2500+ main features are increased power (20%) compared to the LM2500, the same high availability and reliability, and an even higher efficiency (lower SFC) than the LM2500. As in the case of the LM2500, the LM2500+ simple modular design provides for easy maintenance, featuring a split compressor casing, in-place blade and vane replacement, in-place hot section maintenance and external fuel nozzles.

Comparing the Design of the LM2500+ to the LM2500

The primary difference between the two engines is the addition of one stage of compressor blades forward of the LM2500's first stage blading which results in approximately a 20% airflow increase at full power. This "zero" stage is a wide-chord, single-piece bladed disk or blank. The LM2500+'s stage one blades have been redesigned without mid-span dampers. The LM2500+ 17-stage compressor has an increased pressure ratio to 25.1:1 from 18:1 of the LM2500.

Aft of the LM2500+ compressor is the fully annular combustor with externally mounted fuel nozzles; a two-stage air-cooled high-pressure turbine which drives the compressor and the accessory-drive gearbox; and a six-stage aerodynamically coupled, low-pressure power turbine which is driven by the gas generator's high energy exhaust gas flow. The increase in power warranted several design changes in the existing LM2500 power turbine. The overall flow function was increased 1.5% to account for the higher airflow. Stage 1 and Stage 6 blades are optimized for aerodynamic efficiency to keep the power turbine at its previously high level of efficiency. The power turbine rotor has been strengthened for the higher torque and potential energy of the LM2500+.

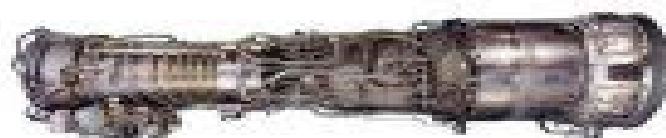
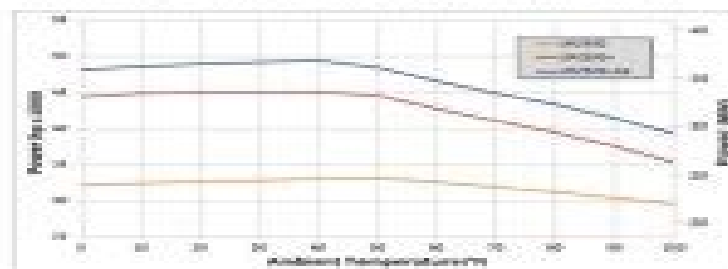
Pre-wired, pre-piped and factory-tested for easy installation, the LM2500+ module weighs just 50,600 pounds (23,000 kilograms) with shock mounts and 48,090 pounds (21,850 kilograms) without. It requires only 538 x 508 x 120 cubic inches of ship space (28.2 x 9 x 10 feet) (7.16 x 2.74 x 3.05 meters). The inlet duct flow area is 57 square feet (5.33 square meters) and the exhaust flow area is 36 square feet (3.3 square meters).

Performance

| | |
|---|--------------------------------------|
| Output | 40,500 shp (30,200 kW) |
| SFC | .354 lb/shp-hr (21.5 g/kWh-hr) |
| Heat rate | 6,522 Btu/shp-hr 8,746 Btu/kWh-hr |
| | 9,227 kJ/kWh-hr |
| Exhaust gas flow | 189 lb/sec (85.9 kg/sec) |
| Exhaust gas temperature | 965°F (518°C) |
| Power turbine speed | 3600 rpm |
| Average performance, 60 Hz, 59°F, sea level, 60% relative humidity, no inlet/exhaust losses | |

Max Power vs. Ambient Temperature

Notes: inlet/exhaust 4/6 inches (10/15 centimeters) water



LM2500+
Marine Module



GE Aviation (Cincinnati, OH)
www.ge.com/marine

Lm2500 Technical Manual

Tanya D. Zapata



Lm2500 Technical Manual:

U.S. Navy Gas Turbine Systems Technician Manual , Gas Turbine System Technician (mechanical) 1 & C, Volume 2
Marshall B. Puffenbarger,1987 **Gas Turbine System Technician (mechanical) 3 & 2** John J. Ahern,1989 Gas Turbine System Technician (electrical) 3 & 2 Robert W. Gonser,1988 **Naval Engineering** Dennis L. Richardson,2016-11-04 Naval Engineering Principles and Theory of Gas Turbine Engines is a technical publication for professional engineers to assist in understanding the history and development of gas turbine engines including the thermodynamic processes known as the Brayton cycle Common principles of various gas turbine nomenclatures technical designs applications and performance conditions that affect the capabilities and limitations of marine operations are provided It enables the ability to describe the principal components of gas turbines and their construction This book will enable the reader to increase professional knowledge through the understanding of navy engineering principles and theory of gas turbine engines The reader will learn the operation and maintenance of the gas turbine modules GTMs gas turbine generators GTGs reduction gears and associated equipment such as pumps valves oil purifiers heat exchangers shafts and shaft bearings Inside this book you will find technical information such as electronic control circuitry interfaces such as signal conditioners control consoles and designated electrical equipment associated with shipboard propulsion and electrical powergenerating plants When every detail of engineering work is performed with integrity and reliability technical leadership know how will improve **ASME Technical Papers** ,2000 Naval Mechanical Engineering Tanya D. Zapata,2019-08-25 Naval Mechanical Engineering Gas Turbine Propulsion Auxiliary and Engineering Support Systems is a technical publication for professional engineers to assist in understanding various ships auxiliary systems You will learn how they are applied to the overall propulsion plant and how the pumps and valves are used in the systems Since the auxiliary systems vary between ship types you will learn the systems in general terms The maintenance and upkeep of the auxiliary systems are extremely important since without them the main engines would not be able to operate You will be presented with some of the various factors that affect gas turbine performance procedures for engine changeout and power train inspection In conclusion you will learn a few of the maintenance operating problems and repair of pneumatic systems low pressure air compressors LPAC hydraulic systems pumps valves heat exchangers and purifiers Proper maintenance or repair work consists of problem diagnosis disassembly measurements corrections of problems and reassembly Use of proper tools knowledge of the construction of equipment proper work site management and cleanliness are keys to successful maintenance and repair work Paper ,2000 **Bibliography for Advancement Study** ,1995 Gas Turbine System Technician (electrical) 1 & C, Volume 2 Robert W. Gonser,1987 Naval Engineers Journal ,1995 **Combined Heating, Cooling & Power Handbook** Neil Petchers,2003 Many of the economic road blocks which have previously served to discourage the implementation of alternative power generation technologies can now be readily overcome through effective

energy resource optimization It is now a fact that solid financial returns can be achieved from combined heating cooling and power generation projects by integrating energy and cost efficiency goals and seeking a match between power production and heating cooling requirements This book is intended to serve as a road map to those seeking to realize optimum economic returns on such projects The first section provides an introduction to basic heat and power thermodynamics with an overview of heat and power generation technologies and equipment The second section explores the infrastructure in which the project must be implemented including environmental considerations as well as utility rate structures The third section provides detailed coverage of a broad range of technology types and discusses how opportunities for their application can be identified and successfully exploited The final section takes you through each step of project development implementation and operation Numerous examples are provided of actual field applications with supporting documentation of system layouts and performance The text is supplemented with more than one thousand graphics including photos cutaway drawings layout schematics performance curves and data tables

Marine Gas Turbines John B. Woodward,1975 **Gas Turbine System Technician 1 & C, Volume 1** Marshall B. Puffenbarger,1987 Technical Abstract Bulletin ,1978 **Manual of Enlisted Navy Job Classifications** United States. Bureau of Naval Personnel,1969 *Department of Defense Provisioning and Other Preprocurement Screening Manual* United States. Office of the Assistant Secretary of Defense (Manpower, Reserve Affairs, and Logistics),1982 **Proceedings of the ASME Turbo Expo ...** ,2006 **Bibliography for Advancement Examination Study** ,1994 **Proceedings of the United States Naval Institute** United States Naval Institute,1990

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