

# 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+.

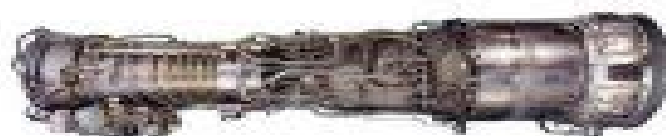
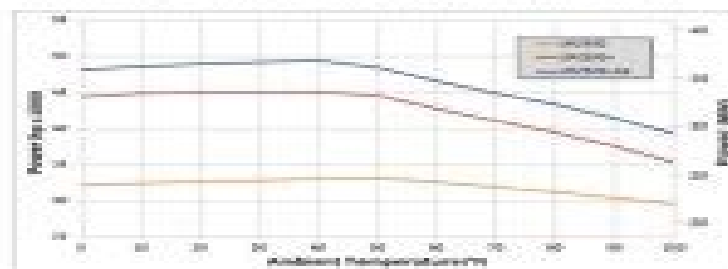
Pre-wired, pre-piped and factory-tested for easy installation, the LM2500+ module weighs just 50,600 pounds (23,000 kilograms) with shock mounts and 48,090 pounds (21,850 kilograms) without. It requires only 538 x 508 x 120 cubic inches of ship space (28.2 x 9 x 10 feet) (7.16 x 2.74 x 3.05 meters).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

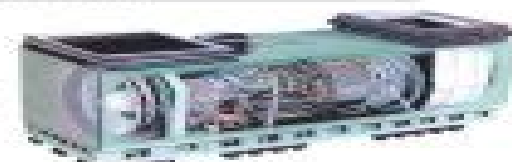
Output	40,500 shp (30,200 kW)
SFC	.354 lb/shp-hr (215 g/kWh-hr)
Heat rate	6,522 Btu/shp-hr 8,746 Btu/kWh-hr
	9,227 kJ/kWh-hr
Exhaust gas flow	189 lb/sec (85.9 kg/sec)
Exhaust gas temperature	965°F (518°C)
Power turbine speed	3600 rpm
Average performance, 60 Hz, 59°F, sea level, 60% relative humidity, 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](http://www.ge.com/marine)

# Lm2500 Technical Manual

**Shasha Hu**



## **Lm2500 Technical Manual:**

## Enjoying the Tune of Expression: An Mental Symphony within **Lm2500 Technical Manual**

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### **Table of Contents Lm2500 Technical Manual**

1. Understanding the eBook Lm2500 Technical Manual
  - The Rise of Digital Reading Lm2500 Technical Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Lm2500 Technical 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 Lm2500 Technical Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Lm2500 Technical Manual

- Personalized Recommendations
  - Lm2500 Technical Manual User Reviews and Ratings
  - Lm2500 Technical Manual and Bestseller Lists
5. Accessing Lm2500 Technical Manual Free and Paid eBooks
    - Lm2500 Technical Manual Public Domain eBooks
    - Lm2500 Technical Manual eBook Subscription Services
    - Lm2500 Technical Manual Budget-Friendly Options
  6. Navigating Lm2500 Technical Manual eBook Formats
    - ePub, PDF, MOBI, and More
    - Lm2500 Technical Manual Compatibility with Devices
    - Lm2500 Technical Manual Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Lm2500 Technical Manual
    - Highlighting and Note-Taking Lm2500 Technical Manual
    - Interactive Elements Lm2500 Technical Manual
  8. Staying Engaged with Lm2500 Technical Manual
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Lm2500 Technical Manual
  9. Balancing eBooks and Physical Books Lm2500 Technical Manual
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Lm2500 Technical Manual
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Lm2500 Technical Manual
    - Setting Reading Goals Lm2500 Technical Manual
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Lm2500 Technical Manual

- Fact-Checking eBook Content of Lm2500 Technical 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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