

# 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+.

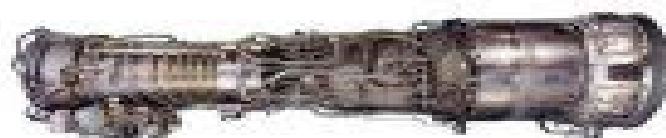
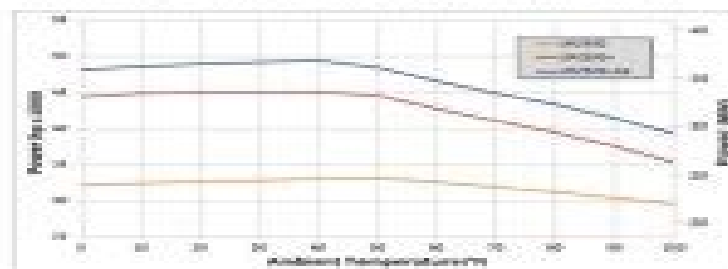
Pre-wired, pre-piped and factory-tested for easy installation, the LM2500+ module weighs just 50,600 pounds (23,000 kilograms) with shock mounts and 48,090 pounds (21,850 kilograms) without. It requires only 538 x 508 x 120 cubic inches of ship space (28.2 x 9 x 10 feet) (7.16 x 2.74 x 3.05 meters).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

**United States Department of the Army**

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