



## STANDARD 60Hz LM2500 GENERATOR PACKAGE

### Gas Turbine

The LM2500 engine is a split-shaft design with the gas generator separate from the power turbine. The gas generator is aerodynamically coupled to the power turbine. This design allows the power turbine to operate at a continuous speed of 3600 rpm, regardless of the gas generator speed. The gas generator consists of a sixteen-stage, axial-flow compressor, an annular combustor with 30 individual fuel nozzles and a two-stage, high-pressure turbine. The separate power turbine is a six-stage axial-flow turbine.

### A/C Generator

The torque developed in the aerodynamically coupled power turbine is directly transferred to the rotor of the alternating current (AC) generator through a flexible diaphragm coupling. The Generator is a continuous duty, two pole, three phase with a brushless exciter. The generator is rated at 13.8 kV, 60Hz, and 0.85 PF.

### Package

The package is weather protected and insulated which protects the gas turbine and generator. The package supplied will include an inlet filter house with inlet filters and an exhaust stack. The dimensions are 68'6" x 14'9" x 29'5".

A separate control house contains the following:

- Control system with HMI
- Voltage regulator/neutral side protection CT's
- Vibration system
- 24V and 125V DC batteries and battery chargers
- Electrical system up to the generator main breaker
- Generator main breaker

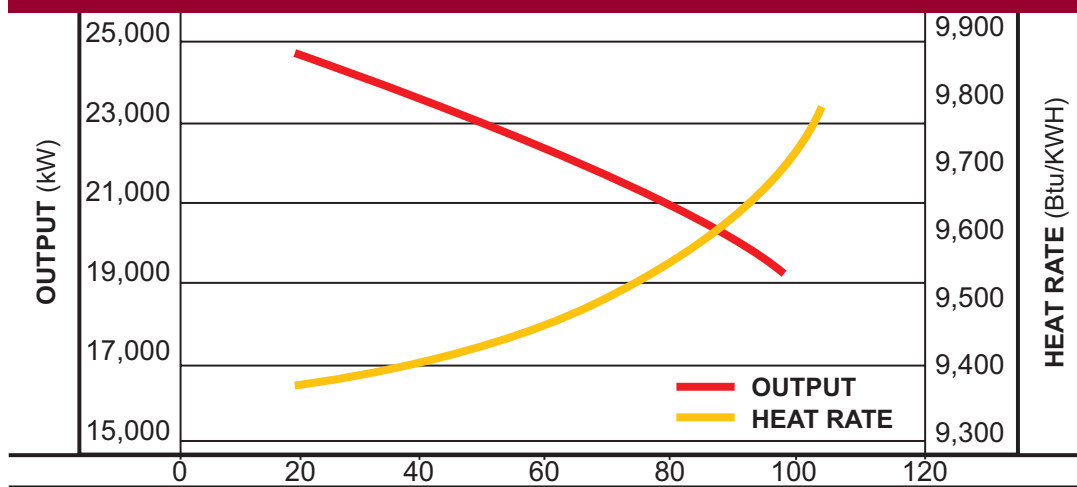
Skid Mounted Equipment:

- Electro-hydraulic start skid and system
- Lube oil skid and system
- On/off-line water wash skid and system
- Fuel oil skid and system (optional)



## LM2500 FACT SHEET

### LM2500 60Hz Output and Heat Rate



0 ft. 60% RH, 4/6 in H<sub>2</sub>O inlet/exhaust loss on natural gas  
with water injection to 25ppmvd NO<sub>x</sub> water inj.

AMBIENT (°F)

### Turbine

	LM2500
Power Output (kWe)	22,000
Heat Rate LHV (Btu/kWe-Hr)	9,465
Exhaust Flow (lbs/sec)	149
Exhaust Temperature (°F)	990
Emissions (ppmvd)	NO <sub>x</sub> /CO
Gas-DLE	25/25
Gas or Liquid-Water	25/50, 42/30
Gas-Steam	25/30
Power Turbine Speed (rpm)	3,600
No. of Compressor Stages	16
No. of Turbine Stages	6

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