

STANDARD 60Hz LM2500 GENERATOR PACKAGE

Gas Turbine

16 Stage Axial Compressor

- 1st 6 stages have variable station
- Horizontal Split Casing
- 20:1 Compression Ratio
- 150 lb/s Nominal Inlet Mass Flow

Annular Combustor

- 30 Nozzles Gas Fuel, Water Injection for NOx Control

6 Stage Power Turbine

Generator

Continuous Duty 13.8kV, 0.85 PF

2 Pole, 3 Phase Brushless Exciter

WP11 Weather Protected

Voltage Regulator/Neutral Side Protection CT's

NEMA Class F Insulation & B Temperature Rise

Package

24V and 125V DC Batteries

90dBA Near Field Design

Barrier Inlet Air Filters

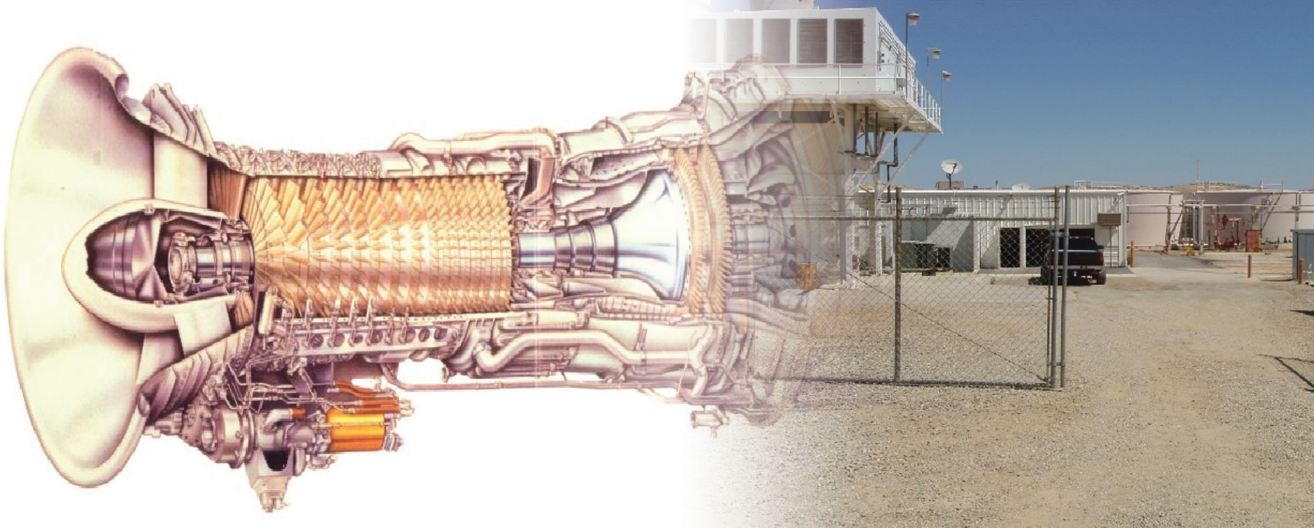
Electro-Hydraulic Start System

Class I Div 2 Group D Class Electrical System

Digital Control System with a Human Machine Interface (HMI)

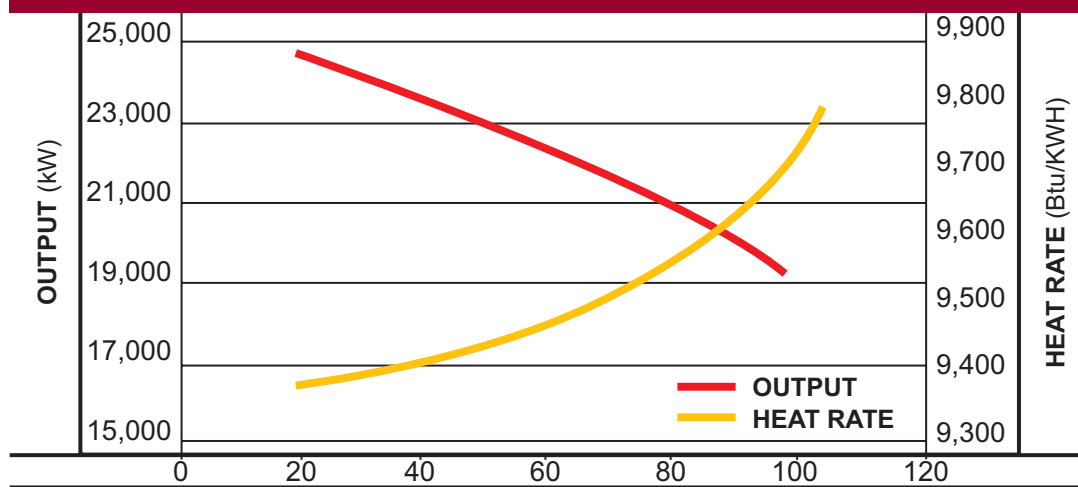
Turbine and Generator Lube Oil System with Simplex Shell and Tube Coolers

On/Off-line Water Wash



LM2500 FACT SHEET

LM2500 60Hz Output and Heat Rate



0 ft. 60% RH, 4/6 in H₂O inlet/exhaust loss on natural gas with water injection to 25ppmvd NO_x water inj.

AMBIENT(°F)

Turbine

| | LM2500 |
|----------------------------|---------------------|
| Power Output (kWe) | 18,400 |
| Heat Rate LHV (Btu/kWe-Hr) | 9,900 |
| Exhaust Flow (lbs/sec) | 143 |
| Exhaust Temperature (°F) | 860 |
| Emissions (ppmvd) | NO _x /CO |
| Gas-DLE | 25/25 |
| Gas or Liquid-Water | 25/75, 42/55 |
| Gas-Steam | 25/74 |
| Power Turbine Speed (rpm) | 3,600 |
| No. of Compressor Stages | 16 |
| No. of Turbine Stages | 6 |