GE Power & Water
Aeroderivative Gas Turbines

TM2500® Mobile Gas Turbine Generator
50/60Hz Applications

fact sheet

Quickly Installed Mobile Power

The TM2500® Mobile Power Unit is a perfect fit for temporary power applications including:

- Base load bridge to a permanent power installation/maintenance
- Peak shaving
- Emergency or backup power

The TM2500 is GE's proven LM2500® gas turbine mounted on wheels...literally, a power plant contained on a mobile, four-trailer assembly. After minimal site and/or foundation preparation, it can reach full power within as few as three days from arrival on site and has less than a ten-minute start cycle to full power. The units are extremely flexible and have been transported via land, sea, and air to some of the most remote places in the world by an extremely experienced project management team.

GE offers the TM2500 for both rental and sale.

What does it come with?

The TM2500 mobile power plant kit includes four trailers assembled together to create the power station:

1. Main Trailer – Includes LM2500 Power Turbine and Brush Generator
2. Air Inlet Trailer – Provides air for cooling and combustion
3. Exhaust Trailer – Provides exhaust discharge and noise control
4. Control Trailer – Contains all operating controls and interface skids

The TM2500 is manufactured with new or fully OEM-qualified overhauled LM2500 engines and new components. A project includes the appropriate services and consumables associated with the units:

- Installation
- Commissioning
- Project management
- Decommissioning
- Consumable parts kit (filters/lubricants for operation needs)

In addition, GE offers many other services associated with the project including, but not limited to:

- Operation and maintenance
- Operation and maintenance training
- Transportation
- Transportation advisory services
- Fuel treatment
- Performance testing
- Various levels of support for the balance of plant scope

Customer's Scope

At the start of the project, GE and the customer will discuss and complete a detailed division of responsibilities matrix. Prior to this agreement, GE's assumption is that the customer is responsible for:

- Providing sufficient space for unit assembly
- Obtaining appropriate permits
- Providing fuel to TM2500 specification to the TM2500 flange
- Providing balance of plant requirements per desired scope

Key Product Features and Specifications

- Output: 22.5 MW @ 60 Hz (ISO), 21.5 MW @ 50 Hz
- Dual Frequency – 50/60 Hz quick conversion (no reduction gear)
- Heat Rate: 9800 Btu/kW-hr @ 50 Hz; 9500 Btu/kW-hr @ 60 Hz (ISO)
- Voltage: 11.0kV (50Hz); 13.8 kV (60Hz)
- Liquid or natural gas fuel capability
- Brush Air-cooled 2-pole generator with brushless excitation
- Multiple units started/controlled through a single desktop PC
- Low emissions with demineralized water injection 25 ppm (gas); 42 ppm (liquid)
- Woodward Micronet® control system
- Inlet air heating/cooling provisions
- Electro-hydraulic starting system
- Single unit footprint ~110' x 70'
- Sound level at 3 ft. 90 dBA

For more information, contact your GE representative or visit www.ge-energy.com.

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