

## The TM 2500 Portable Gas Turbine Generator Various Voltage & 50 or 60 Hz Applications



Offered by PowerFactor, the GE TM2500 Portable Gas Turbine Generator is a fast, reliable solution for most any power generation requirement. The TM2500 is GE's proven LM2500® gas turbine mounted on wheels. It is the perfect solution for limited space applications, where large power generation capability is required. Rated at 22.8MW @ 60Hz, this power plant is ready of mobilization on a four-trailer assembly. Requiring only minimal site preparation, it can reach full power in as few as three days from arrival and has less than a ten-minute start cycle to reach full power. These units are very flexible and have been transported over land, by sea, and by air to some of the most remote places in the world. Portable power solutions by PowerFactor include many offerings, but no offering would be complete without the industry staple TM2500 Turbine Generator. PowerFactor is ready when you need power... *anywhere in the world!*

Whether for rental or purchase, PowerFactor's GE TM2500 is a powerful solution for virtually any power generation need. Offering both portability and large capacity, the TM 2500 can be commissioned in days, instead of weeks or months. The perfect solution for many base load operations, the TM2500 provides up to 22.8MW at various voltages and frequencies. From backup power generation to support relief efforts for natural disasters, or for plant shutdowns due to equipment maintenance or failure, PowerFactor can help!

The General Electric **TM 2500** provides the following Key Benefits:

- Output: 22.8 MW @ 60 Hz - 21.8 MW @ 50 Hz (ISO)
- Dual Frequency – 50/60 Hz quick conversion
- Heat Rate: 9500 Btu/kW-hr @ 60 Hz - 9800 Btu/kW-hr @ 50 Hz (ISO)
- Dual fuel capability - liquid or natural gas
- Brush Air-cooled 2-pole generator with brushless excitation
- PC Control - Multiple units can be started/controlled with a single PC
- De-mineralized water injection for low emissions (25 ppm w/ gas; 42 ppm w/ liquid)
- Variable voltage capability
- Woodward "Micronet®" Control System
- Heating & Cooling options inlet air
- Electro-hydraulic starting system
- Small Footprint (~110' x 70')
- 90 dBA @ 3 Feet
- Available for both purchase and rental

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## The TM 2500 Mobile Gas Turbine Generator

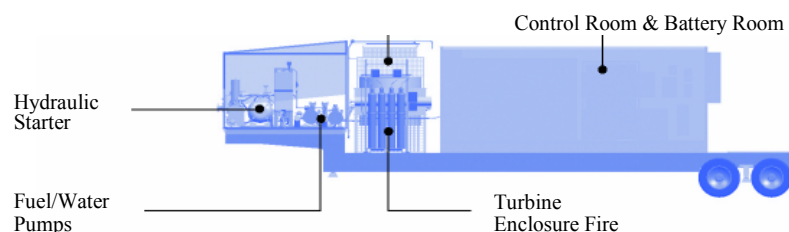
### Design

The **TM 2500** is packaged on a four-trailer system with top-mounted inlet and exhaust assemblies. The **TM 2500** is easily transported by air, ship, rail, or tractor-trailer and can be delivered to remote locations around the world.

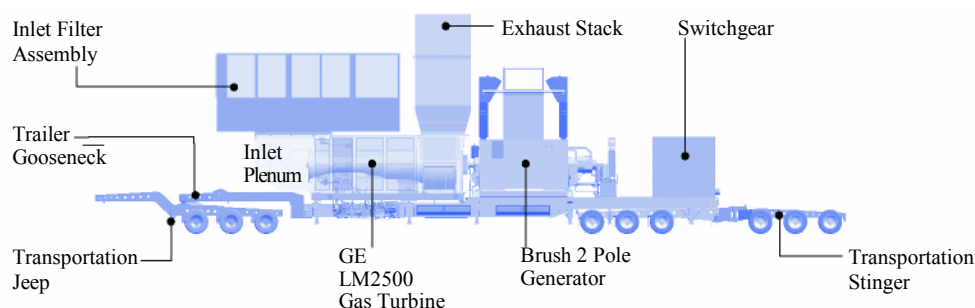
The design of the GE **TM 2500** offers quick-connect fittings to help with installation and allow for rapid assembly and setup time. Assembly is often fully complete in just three days.

With over 60,000 operating hours experience in a variety of applications, the **TM 2500** can be easily converted from 50 to 60 Hz and offers dual fuel capability. Showcasing the **LM 2500** aero-derivative gas turbine with an air-cooled Brush, 2 pole generator and brushless excitation, the **TM 2500** remains a staple in the world of portable power generation.

### Auxiliary Trailer



### General Layout



### Typical Applications

With more than 2,000 LM 2500 and LM 2500 units sold for use in power generation applications worldwide, the GE LM & TM series turbine generators are the most experienced & reliable turbine solutions available. Common uses include:

- Base load power generation stations for remote areas
- Supplemental power for peak shaving or managing seasonal demands
- Supplemental power due to local generation constraints (hydro shortages, plant outages, etc.)
- Temporary power for power plants or for large-scale industrial or commercial projects
- Maintenance outages, overhauls, or local T & D support
- Emergency power support following natural disasters

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