

TM2500+™ Mobile Gas Turbine Generator  
50/60 Hz Applications

fact sheet



GE Power & Water now offers a faster, more reliable solution for bridging the gap between energy outages and dependable power generation. As the newest enhancement of GE's trailer-mounted unit, the TM2500+ offers a 31% increase in power in a more compact footprint with less time than ever between contract and commissioning.

Perfect for providing a base load bridge to permanent power installations or for generating backup power supporting natural disaster relief, plant shutdowns or equipment maintenance, the TM2500+ is capable of producing up to 31 megawatts of power—achieving full power in less than 10 minutes.

### Key Product Features and Benefits

- Developed specifically to respond to the need for fast or mobile power
- Small Footprint 24 m x 7 m (78 ft x 21 ft)
- Flexible to operate on either natural gas or liquid distillate fuels
- Dual Frequency—50/60 Hz quick conversion
- Low emissions with demineralized water injection 25 ppm (gas)/42 ppm (liquid)
- Quick to dispatch
- Easy to operate and maintain
- Available for both rental and sale

## Improved Design

Now packaged on a two-trailer system with a top-mounted air inlet filter and exhaust assemblies, GE's TM2500+ requires 77% less space than its predecessor. Both the inlet filter assembly and the exhaust duct are mounted directly on top of the main trailer assembly, making the TM2500+ easily transported by ship, air, or road to even the most remote locations around the globe.

The improved TM2500+ design offers an increased number of quick-disconnect fittings, which simplifies and accelerates the installation process allowing for assembly and setup in just one day.

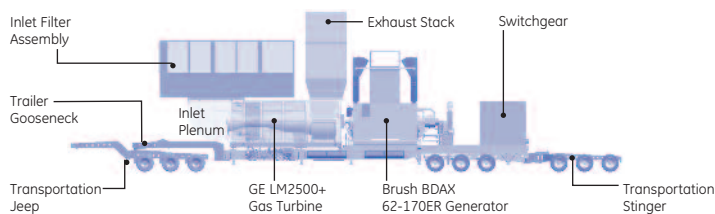
Leveraging experience gained from over 60,000 hours of operation in a variety of applications around the globe, the TM2500+ is easily converted from 50 to 60 Hz and is capable of operating on either natural gas or liquid distillate fuels. The unit also offers the option of water injection for NO<sub>x</sub> suppression down to 25 ppm. The TM2500+ incorporates GE's lightweight LM2500+ aeroderivative gas turbine with the Brush 170ER generator.

## Applications

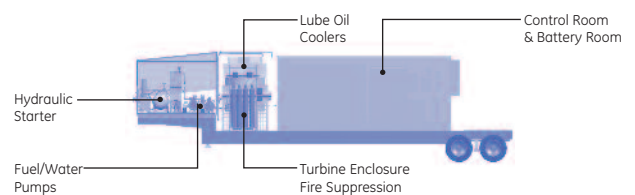
GE has sold more than 2,000 LM2500 and LM2500+ units in power generation applications worldwide, making it the world's most experienced, reliable gas turbine solution for temporary power applications.

- Supplementing power to the grid for peak shaving or managing seasonal demands
- Overcoming generation constraints such as hydropower shortages
- Backup power to support maintenance, overhauls, or outages at power plants or for large-scale projects
- Power for remote areas
- Emergency power support during natural disasters
- O&G and Mining applications

TM2500+ General Arrangement



Auxiliary Trailer



Model	Water Injection (NO <sub>x</sub> = 25 ppmvd @15% O <sub>2</sub> )	Output (MW)	Heat Rate (Btu/kWh)	Heat Rate (kJ/kWh)	Efficiency (%)	Pressure Ratio	Power Turbine Speed (RPM)	Exhaust Flow (lb/sec)	Exhaust Flow (kg/sec)	Exhaust Temp (F)	Exhaust Temp (C)
<b>60 HZ</b>											
TM2500+	None	30.688	8830	9316	39	22.5	3600	192.2	87.2	959.1	515
TM2500+	Yes	30.988	9285	9796	37	22.8	3600	196.6	89.2	906.0	485.6
<b>50 HZ</b>											
TM2500+	None	26.190	9246	9755	37	21.2	3000	184.5	83.7	925.0	496.1
TM2500+	Yes	26.190	9705	10239	35	21.3	3000	187.2	84.9	879.0	470.6

\*60 Hz based on a Brush air-cooled generator w/brushless excitation @ 0.90 PF, 59°F cooling air, 13.8 kV (50 Hz @ 11.5 kV), Ambient air: 59°F, 60% RH, Sea level



For more information, contact your GE representative or visit [www.ge-energy.com](http://www.ge-energy.com)

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