SGT-A45 mobile unit
Immediate power to the grid – highest power density, trusted technology

Based on proven aeroderivative gas turbine technology, the SGT-A45 mobile unit is an outstanding solution for fast power. With up to 44 MW of electrical output, it offers significantly more power and higher fuel efficiency than any other mobile gas turbine.

Features
- The world’s most powerful mobile gas turbine (up to 44 MWe)
- Fast deployment solution for urgent power needs
- Trailer-mounted modules with few, fast interconnections
- Each unit precommissioned and tested at the factory
- Core engine modules from SGT-A65 (Industrial Trent 60) matched to a proven free power turbine
- Proven, highly efficient aeroderivative turbomachinery
- Compact footprint
- Uses liquid or gas fuel, with flexibility to switch over at any time in operation
- Optional water injection for low NOx and instant power boost
- Dual-frequency package with simple configuration change
- Designed for integration in complete power solution
- Transportable by road, air, or sea

Benefits
- Mobile solution up to 44 MW(e), with outstanding power density
- Fast, flexible power on delivery with fewer units and lower $/kW
- Site installation and commissioning in less than 2 weeks
- Fast start (8 minutes or less) and flexible operation
- Easy transport to site and relocation
- High fuel efficiency
- Performance optimized for hot climates
- Dual-fuel flexibility (liquid and gas)
- Low-NOx option
- Layout and installation optimized for full power plant solution
- Same maintenance interval on gas and liquid fuel
- Restart at any time – no “hot lockout” or “hot standby”

siemens.com/gasturbines
Mobile unit
• Up to 44 MW(e) (ISO)
• 50 Hz or 60 Hz
• Liquid and gas fuel
• Emissions to < 25 vppm NOx
• Mounted on trailers
• Highly standardized

Optional balance of plant scope
• Generator step-up transformers
• Liquid fuel storage and treatment
• Water demineralization plant
• Natural gas compressors and filters

Siemens can supply the required scope of Balance of Plant (BoP) equipment, integration services, or complete power solution. Financing options available.

<table>
<thead>
<tr>
<th>Specification</th>
<th>50 Hz</th>
<th>60 Hz</th>
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<tbody>
<tr>
<td></td>
<td>15° C</td>
<td>30° C</td>
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<tr>
<td>Electrical power (ISO, dry)</td>
<td>41.0 MW(e)</td>
<td>39.3 MW(e)</td>
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<tr>
<td>Electrical efficiency (ISO, dry)</td>
<td>39.0%</td>
<td>38.4%</td>
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<tr>
<td>Fuel type</td>
<td>Dual (gas &amp; liquid)</td>
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<tr>
<td>Low emissions option</td>
<td>Water injection</td>
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<tr>
<td>Low emissions – gas fuel</td>
<td>25 vppm NOx</td>
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<tr>
<td>Low emissions – liquid fuel</td>
<td>42 vppm NOx</td>
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<tr>
<td>Turbine speed</td>
<td>3,000 rpm</td>
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<tr>
<td>Pressure ratio</td>
<td>27.7 : 1</td>
<td>26.7 : 1</td>
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<tr>
<td>Exhaust gas flow</td>
<td>127 kg/s</td>
<td>120 kg/s</td>
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<tr>
<td>Exhaust gas temperature</td>
<td>477° C</td>
<td>501° C</td>
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</tbody>
</table>

45 MW class core engine derived from the SGT-A65 (Industrial Trent 60)