Fast Power. Anywhere.

Power to the grid in six months or less

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Version 1

www.siemens.com/fast-power
Urgently needed power

The availability of electrical power is a major enabler of social and economic development. Some parts of the world are developing so fast that conventional power plant construction would take too long to satisfy the immediate needs. In other cases, the power infrastructure is damaged by natural or man-made disasters, requiring fast back-up solutions. To address the need for fast power, Siemens has developed its Fast Power portfolio.

These solutions are designed to provide electricity in six months or less and are tailored to the needs of rapidly developing countries.

Our focus is on addressing diverse customer requirements – from mobile, self-contained units with very fast deployment and installation for the most urgent needs to highly standardized gas turbine packages for both new power plants and quick upgrades of existing plants.
SGT-A65 Fast Power package

Engineered for industry-leading power output and fuel savings
simple cycle power generation
up to 66 MW(e)

Greatest efficiency and operational flexibility in its class

- Up to 66 MW(e)
- Up to 43.8% simple cycle efficiency
- More than 115 units sold in total, over 1.8 million operating hours
- Class-leading highest simple cycle efficiency
- Designed for high operational flexibility
- DLE and WLE combustion systems
- Fast start and stop and minimal efficiency drop-off at part load
- Modular and single-lift design for ease of maintenance
- Robust, reliable technology with proven reliability (including start) and availability
- Low lifecycle costs

6 months delivery
SGT-800
Fast Power package

Pre-engineered scope of supply for fast delivery anywhere
Simple cycle power generation up to 54 MW(e)

A robust industrial gas turbine prepared for CC extension

Up to 54.0 MW(e) *
Classic package **

Up to 39.1% simple cycle efficiency
More than 350 units sold in total (over 25 units sold as Fast Power), over 7 million operating hours
99.8% world-class reliability
Dual-fuel DLE combustion system
Pre-engineered scope of supply
Outdoor installation, Ambient temp. -15° C to +55° C
Auxiliary systems air-cooled (no cooling water needed)
Prepared for steam-tailing

* Up to 57 MW(e) at normal delivery time
** Single-lift package is available at normal delivery time

Benefits

Proven reliability
Simple, robust design
Low emission capability
Excellent performance
Package features
Easy maintenance

6 months delivery

Show feature overview  Show technical data

Touch the hotspots to explore details
SGT-400
Fast Power package

Power to the grid in just six months; delivery on short notice worldwide

Simple cycle power generation
up to 12.9 MW(e)

Highest efficiency in its power class

- Up to 12.9 MW(e)
- Up to 34.8% simple cycle efficiency
- More than 400 units sold in total, over 5 million operating hours
- Very high efficiency
- Designed for base load and peaking applications
- High fuel flexibility, wide gas range and liquid fuel, dual-fuel options
- World-leading DLE combustion technology; capable of ULE (ultra-low emission) operation
- Fast installation and commissioning
- Easier to transport to site and relocate
- High power density compact footprint
- Very low oil consumption; no water required

Package features

- Simple, robust design
- 11-stage axial flow compressor
- Low emission capability
- Bearings and lubrication
- Easy maintenance

Benefits
**SGT-A45 Mobile Power package**

Immediate power to the grid with the world’s most powerful and fuel efficient mobile gas turbine

**Power generation**

**up to 44 MW(e)**

Simple cycle efficiency **up to 40.4%**

**Benefits**

- **Up to 44 MW(e)**
- **Up to 40.4% simple cycle efficiency**
- Mobile unit with outstanding power density
- Fast, flexible power on delivery with fewer units and lower $/kW
- High fuel efficiency and dual-fuel flexibility (liquid and gas)
- Fast start (5 minutes from cold) and flexible operation
- Restart at any time – no “hot lockout” or “hot standby”
- Site installation and commissioning in less than 2 weeks
- Easy transport to site and relocation
- Performance optimized for hot climates
- Low-NOx option
- Layout and installation optimized for full power plant solution
SGT-A05
Mobile Power unit

Class-leading gross electrical efficiency performance in a single trailer package

Simple cycle power generation
up to 5.8 MW(e)

Dependable, flexible design for onshore applications

Up to 5.8 MW(e)

Up to 33.2% simple cycle efficiency

More than 1,690 units sold in total, over 127 million operating hours

Power on-site in a single package

Outstanding reliability for power generation applications and emergency power

High electrical and cycle efficiency

7He performance pressure ratio: 14.0:1 (SGT-A05 KB7HE)

Full power available within 60 seconds

Black-start and hot-start capability

Proven aeroderivative design

Operates on a wide variety of fuels
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