

## 200 mw generator

The proven SGT6-5000F gas turbine offers economical power generation with fast start-up and quick load changes for peak, intermediate, or base load. The fleet of SGT6-5000F gas turbines operating worldwide demonstrates an excellent reliability of 99%.

Its outstanding fuel flexibility makes it a great choice for many applications in the oil and gas industry. With only single-digit NO<sub>x</sub> emissions (< 9 ppmvd), the SGT6-5000F provides world-class emission performance.

Do you have a question regarding our products, solutions and services?

The SGT6-5000F gas turbine is a proven engine for the 60 Hz market, with a power output of up to 260 MW and 40.0% simple cycle efficiency. Due to its robust turbine design, it provides rapid start-up and shutdown capabilities, with only 5 minutes from turning gear to full speed and a load gradient of up to 40 MW/min.

Due to its advanced combustion technology, single-digit emissions in base and part load can be achieved: NO<sub>x</sub> emissions of < 9 ppmvd and CO emissions of < 4 ppmvd. You can operate the SGT6-5000F at 30% part load in low load turndown over a wide range of ambient conditions within the emission limit values.

By using proven technology, low firing temperatures and conventionally cast alloys, this gas turbine achieves outstanding availability. Its robust turbine design is continuously enhanced by high-performance upgrades.

The SGT6-5000F is able to burn a wide range of fuels including natural gas, LNG, syngas, ethane, propane, Arabian Super Light crude oil, distillate oil, condensate, Arabian Extra Light crude oil, biodiesel, alcohols, Jet-A oil, and kerosene.

The combustion system is able to handle different fuel compositions, e.g. contents of hydrogen sulfide (H<sub>2</sub>S) of up to 4,000 ppm, or hydrogen (H<sub>2</sub>) of up to 30 vol%. Its system can switch over quickly between fuel gas and fuel oil and vice versa.

Our proven, low-risk design translates into longer service intervals and service life for your gas turbine. All rotating blades are replaceable without de-stacking or lifting the rotor.

Extensive experience in commercial operation means that you can rely on proven and validated package and plant concepts that enable early power generation in simple cycle. Projects are implemented quickly, fast project execution due to modularized package and plant design and pre-engineered solutions.

The SGT6-5000F features a 13-stage axial compressor with advanced 3D blade design. Three rows of variable



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guide vanes enable improved part load efficiency and transient operation. The rotor design of the 260 MW version is based on a single tie rod with Hirth serrations for reliable torque transmission.

Variable inlet guide vanes plus three stages of fast-acting variable guide vanes improve the part load efficiency of the 260 MW engine.

Contact us for free full report

Web: <https://kary.com.pl/contact-us/>

Email: [energystorage2000@gmail.com](mailto:energystorage2000@gmail.com)

WhatsApp: 8613816583346

