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LM6000 Aeroderivative Gas Turbines

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Demonstrated Reliability

The LM6000 turbine consists of a five-stage low-pressure compressor; a 14-stage high-pressure compressor, which includes six variable-geometry stages; an annular combustor with 30 individually replaceable fuel nozzles; a two-stage, air-cooled high-pressure turbine; and a five-stage low-pressure turbine. The overall compression ratio is 29 to 1. The LM6000 does not have an aerodynamically coupled power turbine.

Features & Benefits

The LM6000 is a dual-rotor, "direct drive" gas turbine derived from the CF6-80C2, high-bypass, turbofan aircraft engine. The LM6000 takes advantage of its parent aircraft engine's low-pressure rotor operating speed of approximately 3,600 rpm. The low-pressure rotor is the driven-equipment driver, providing for direct coupling of the gas turbine low-pressure system to the load, as well as the option of either cold end or hot end drive arrangements.

The LM6000 maintains an extraordinarily high degree of commonality with its parent aircraft engine. This is unlike the conventional aeroderivative approach, which maintains commonality in the gas generator only and adds a unique power turbine. By maintaining high commonality, the LM6000 offers reduced parts cost and demonstrated reliability.

Features of the 43.7 MWe/60,000 shp LM6000 turbine include:

- Compact, modular design
- Reliable starting and fast loading to full power in ten minutes
- Baseload, cycling or peaking
- Excellent fit for cogeneration applications
- Synchronous condenser capability
- Variable speed for mechanical drive
- Spray inter-cooling - Sprint(r) technology - for power augmentation to 50MW.

More than 600 LM6000 power generation packages have been sold, which have accumulated more than ten million operating hours at 98.8 percent documented gas turbine availability and 97.7 percent gas turbine & generator set availability. More than one third of these installations are for base loaded applications in either cogeneration and utility installations operating in excess of 8000 hours per year. The others are serving the peaking and mid-merit electric utility segment with very high dispatch rates averaging more than 1,500 hours per year. LM6000s have also been selected by the oil & gas industry for offshore and onshore installations such as floating, production, storage and offloading vessels (FPSO), platforms, and LNG liquefaction.

The turbine is available with water or steam injection for

For More Information

Call: (713) 803-0900

[Send email to psaes@ps.ge.com](mailto:psaes@ps.ge.com)

NOx emissions reduction down to 25ppm, and Dry Low
Emission combustion for NOx emissions reduction down to
15ppm.

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