



LM6000-PF+ gas turbine

with dry low emissions (DLE) combustor

Technology

The LM6000-PF+ is an aeroderivative gas turbine with DLE combustor and thermal efficiency of 42% at the shaft.

- **Baseload power capabilities** of 52-58 MW at ISO
- **Enhanced SPRINT®** (spray inter-cooling technology) **capability with power up to 58 MW**
- Excellent fast start capability; able to reach maximum power in 10 minutes (5-minute start capable)
- Demonstrated reliability and availability in excess of 99% and 98%, respectively
- Lightweight, modular design—easy maintained and transported
- Proven DLE combustion technology with dual fuel capability to achieve better fuel flexibility and reduce emissions

Experience

The LM6000-PF+ is based on the CF6-80C2 and CF6-80E1, the predominant engines for Boeing 747 and 767, as well as Airbus A300/A310/A330 wide-body aircraft, with more than 4,300 engines delivered and accumulation of more than 220 million hours of operation.

The LM6000-PF+ builds on the successful heritage of the LM6000, with more than 1,200 turbines produced and more than 30 million operating hours as of 2014.

Application flexibility

Power generation:

- Peaking, mid-merit and baseload production demands
- Ideal for simple cycle, combined cycle, and combined heat and power applications

- Ideal for enhancing plants' fuel utilization: Power producers, industrial plants, metallurgical plants, mining, pharmaceuticals, pulp and paper, refineries, food processing, airports, hospitals, and universities

Oil and gas:

For LNG plants and offshore platforms for reliability, lightweight and compact design, high efficiency, with high starting torque and speed flexibility from 50% to 105%.

ISO performance on gaseous methanol fuel

LM6000 gas turbine package	PF+	PF+ SPRINT
Power output (MW)	52	58
Specific LHV (kJ/kWh)	8,054	8,803
Efficiency LHV (%)	41.8	40.9
Exhaust flow (kg/sec)	1.34	1.45
Exhaust temperature (°C)	500	488
Emissions (mg/kWh) - 3% O ₂	NO _x	NO _x
Gas	50	50
Liquid	120	120
Power turbine 100% speed (rpm)	3,325	3,325
No. of compressor stages	15	15

Innovation

GE's business continues to drive innovation throughout the entire gas turbine generator package:

- SPRINT: optimal hot day power enhancement



- Super polished compressor airfoils
- DLE dual fuel combustion technology
- Advanced HGP cooling

Service

GE is the world's largest aeroderivative service provider, with a global network of field service offices and fully equipped service centers. A wide range of products and services are offered for the LM6000 industrial, cogeneration, oil and gas operators including:

- Level IV service and overhaul capability in GE's repair service facilities located globally
- Conversions, modifications and upgrades (CM&Us) designed to enhance the efficiency, power output and reliability of the LM6000—examples include SPRINT upgrade, combustor conversions, and remote monitoring and diagnostics (RM&D)
- Spare or lease engine options
- Engine exchange programs
- Rotable hot section and module exchange programs
- Wide variety of contractual or long-term service agreements

This comprehensive product offering, combined with our commitment to reduced service center and outage turn times, results in substantial life cycle cost savings for the plant owner/operator.

Ge Lm6000 Gas Turbine Manual

Shasha Hu



Ge Lm6000 Gas Turbine Manual:

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