

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 \$2-56 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—easily 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 boselood production demands
- Ideal for simple cycle, combined cycle, and combined heat and power applications



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 passeus; methons fuel

hospitals, and universities

LMEGGO gas turbine package	PF-	SPECIAL
Power output P5N0	100	5.0
react rote CHV (LDNAV-tur)	10,056	8,803
Efficiency Unit (No.	41.6	40.9
Exhaust flow (kg/sec)	1.5%	246
Exhaust temperature PCI	500	isother.
Emissions (mg/Nm² - 15% (2))	NO.	NO.
Cos	10	90
Urgold	120	1200
Power turbine 200% speed inpro-	3.945	3.905
No of compressor stages	10	19

Innovation

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

SPRINT optimal hot day power enhancement

- · Super polished compressor airfolis.
- 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 UM6000 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 ICMSUs! designed to enhance the efficiency, power output and reliability of the LM6000—examples include SPRINT upgrade, combustor conversions, and remate monitoring and diagnostics IRMSDI
- Spare or lease engine options.
- Engine exchange programs
- Rotable hat 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

JL Elias

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