



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/kW-hr)	8,054	8,803
Efficiency LHV (%)	41.8	40.9
Exhaust flow (kg/sec)	1.34	1.46
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

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Ract Bact Laer Clearinghouse clean Air Technology Center annual Report for 2001 ,2002 ASME COGEN-TURBO
,1991 Low NOx Measurement: Gas Turbine Plants Vaught Engineering Incorporated,1999 ASME Technical Papers
,1997 **Turbomachinery International** ,2003 Vols for 1977 include a section Turbomachinery world news called v 1
The Motor Ship ,1998 Proceedings of the ASME Turbo Expo ... ,2006 **IGTI Technology Report and Product**
Directory, Land, Sea & Air ,1999 *Technology Report and Product Directory, Land, Sea & Air* ,1999 User Instruction
Manual - General Electric LM1500, (Two Shaft) Gas Turbine I. W. Dingwell,LITTLE (ARTHUR D) INC CAMBRIDGE
MASS.,1970 A mathematical model has been developed for an aircraft derivative two shaft gas turbine power plant Model
LM1500 manufactured by General Electric Company Gas Turbine Department By use of this mathematical model the
performance of the gas turbine may be calculated to environmental transients and electrical load changes This calculation
procedure has been programmed in FORTRAN 4 and the resulting set of instructions have been executed on several digital
computers

The Enigmatic Realm of **Ge Lm6000 Gas Turbine Manual**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Ge Lm6000 Gas Turbine Manual** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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