



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%.

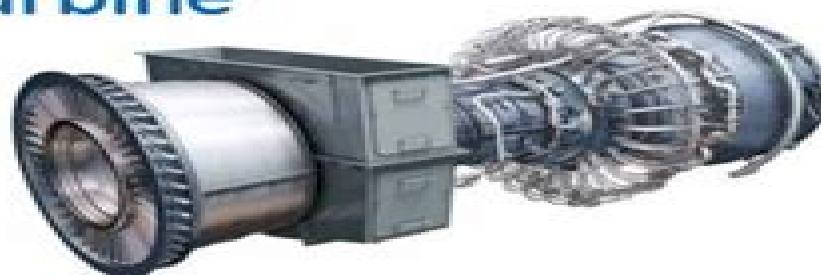
ISO performance on gaseous methanol fuel

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)	134	146
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.

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N Noddings



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Ract Bact Laer Clearinghouse clean Air Technology Center annual Report for 2001 ,2002 ASME COGEN-TURBO ,1991 **The Motor Ship** ,1998 **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 **Proceedings of the ASME Turbo Expo ...** ,2006 **Technology Report and Product Directory, Land, Sea & Air** ,1999 **IGTI 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 Gas Turbine Manual** R.J. Welsh, *Gas Turbine Manual* C. Ronald Simmons,1968 *Gas Turbine Engine Commercial Series Operator's Manual* Avco Corporation. Lycoming Division,1970 Gas Turbine Engine Basic Training Course Ford Motor Company. Industrial Power Products,1971 **Manual for Gas Turbine Engine Assemblers** L.K. Nikolenko,V.I. Sokolov,1967 **Gas Turbines** Claire Soares,2011-04-01 This major reference book offers the professional engineer and technician a wealth of useful guidance on nearly every aspect of gas turbine design installation operation maintenance and repair The author is a noted industry expert with experience in both civilian and military gas turbines including close work as a technical consultant for GE and Rolls Royce Guidance on installation control instrumentation calibration and maintenance including lubrication air seals bearings and filters Unique compendium of manufacturer s specifications and performance criteria including GE and Rolls Royce engines Hard to find help on the economics and business management aspect of turbine selection life cycle costs and the future trends of gas turbine development and applications in aero marine power generation and beyond **The Gas Turbine Manual** Robert James Welsh,Geoffrey Waller,1955 The gas turbine manual, by R.J. Welsh and G.Waller Robert James Welsh,Geoffrey Waller, Marine Gas Turbine Applications Manual General Electric Company,S. M. Kaplan,United States. Maritime Administration,United States. Maritime Administration. Office of Marine Technology,1975 Installation Manual for General Electric J47 (7E-J47 B & C) Engines General Electric Company. Aircraft Gas Turbine Division,1952

Ge Lm6000 Gas Turbine Manual Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has are more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Ge Lm6000 Gas Turbine Manual**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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