



1. LM6000 Introduction

1.1 Equipment Capabilities

GE is pleased to offer the LM6000 Aeroderivative Package. With the ability to deliver over 49 MW on a gross electrical basis, the LM6000 maintains the proven reliable technology with modern design enhancements to improve maintainability and reliability. Additional benefits of the LM6000 Package are the lower overall installed cost, shorten installation time, reduced customer interfaces and enhanced safety.

The Package features the GE LM6000 gas turbine and a matching electric generator. It is designed for simple-cycle, combined-cycle, and cogeneration installations. The LM6000 is built with rugged components for base-load utility service. It can also start and stop easily for "peaking" or "dispatched" applications. Additionally, quick dispatchability is available in simple-cycle applications with the 10-minute fast start feature.

Package Type (60 Hz)	kW	Btu/kWh	KJ/kWh
LM6000 PC SPRINT® – Natural Gas and Water Injection	50,337	8,457	8,923
LM6000 PC – Natural Gas and Water Injection	43,882	8,511	8,980
LM6000 PC – Natural Gas and Steam Injection	43,854	7,879	8,312
Conditions: Power at generator terminals NO _x = 15 ppm (SAC-Water) 39° F / 15 °C, 60% RH 13.5kV, 0.85 pf Losses: 0"/0" H ₂ O Inlet/Exhaust Fuel: Spec Gas (19,000 Btu / Lb, LHV) at 77° / 25°C V30V option included			

1.1.2 Engine Heritage

The LM6000 gas turbine is derived from the GE commercial CF6-80C2 aircraft engine. This engine first entered aircraft service in 1985 and is used extensively in wide-body commercial airliners. More than 2000 "80C2" engines are either on order or in use today.

1.1.3 Simple Design

The LM6000 package is offered in a 50 Hz and 60 Hz design. This document covers the 60 Hz design.

The LM6000 is a 2-shaft gas turbine engine equipped with a low-pressure compressor, high-pressure compressor, combustor, high-pressure turbine, and low-pressure turbine.

Lm6000 Operation Manual

Wenbin Ji



Lm6000 Operation Manual:

Turbomachinery International, 2001 Vols for 1977 include a section Turbomachinery world news called v 1 The Gas Turbine Handbook Tony Giampaolo, 2003 The second edition of a bestseller this comprehensive reference provides the fundamental information required to understand both the operation and proper application of all types of gas turbines The completely updated second edition adds a new section on use of inlet cooling for power augmentation and NOx control It explores the full spectrum of gas turbines hardware typical application scenarios and operating parameters controls inlet treatments inspection trouble shooting and more The author discusses strategies that can help readers avoid problems before they occur and provides tips that enable diagnosis of problems in their early stages and analysis of failures to prevent their recurrence **ASME COGEN-TURBO**, 1991 *Power*, 1996 Ract Bact Laer Clearinghouse clean Air Technology Center annual Report for 2001, 2002 **Power Plants and Power Systems Control 2000** J.-P. Waha, 2000 Paperback With the decentralisation and liberalisation of the electrical energy system in Europe the network companies as well as the power plant companies will be faced with many new emerging technical problems This Proceedings contains papers presented at the IFAC 2000 Symposium on Power Plants and Power Systems Control this symposium aimed to provided international experts with a platform to discuss the challenges facing the power plant industry and to present solutions developed in countries who have previously encountered these new paradigms of grid control One of the main aims of the symposium was to promote a better knowledge of the behaviour of the power plants and power systems with the ultimate goal of an efficient flexible and secure operation coupled with a high level of service to their customers Gas Turbines Claire Soares, 2014-10-23 Covering basic theory components installation maintenance manufacturing regulation and industry developments Gas Turbines A Handbook of Air Sea and Land Applications is a broad based introductory reference designed to give you the knowledge needed to succeed in the gas turbine industry land sea and air applications Providing the big picture view that other detailed data focused resources lack this book has a strong focus on the information needed to effectively decision make and plan gas turbine system use for particular applications taking into consideration not only operational requirements but long term life cycle costs in upkeep repair and future use With concise easily digestible overviews of all important theoretical bases and a practical focus throughout Gas Turbines is an ideal handbook for those new to the field or in the early stages of their career as well as more experienced engineers looking for a reliable one stop reference that covers the breadth of the field Covers installation maintenance manufacturer s specifications performance criteria and future trends offering a rounded view of the area that takes in technical detail as well as well as industry economics and outlook Updated with the latest industry developments including new emission and efficiency regulations and their impact on gas turbine technology Over 300 pages of new revised content including new sections on microturbines non conventional fuel sources for microturbines emissions major developments in aircraft engines use of coal gas and

superheated steam and new case histories throughout highlighting component improvements in all systems and sub systems

The Motor Ship ,1998 Government Reports Announcements & Index ,1996 Proceedings of the ASME Turbo Expo ... ,2006 **Proceedings of the ASME Turbo Expo 2002 Presented at the 2002 ASME Turbo Expo, June 3-6, 2002, Amsterdam, the Netherlands** ,2002 Annotation This is Volume 1 of five volumes that comprise the proceedings of the June 2002 conference sponsored by the International Gas Turbine Institute IGTI a technical institute of the American Society of Mechanical Engineers The purpose of the conference was to facilitate international exchange and development of educational and technical information related to the design application manufacture operation maintenance and environmental impact of all types of gas engines With an emphasis upon the need for more efficient cleaner and more reliable gas turbines the approximately 130 articles cover various technical aspects of aircraft engines coal biomass and alternative fuels combustion and fuels education electric power and vehicular and small turbomachines There is no subject index Annotation c Book News Inc Portland OR booknews com **IGTI Technology Report and Product Directory, Land, Sea & Air** ,1999 Journal of Turbomachinery , **Technology Report and Product Directory, Land, Sea & Air** ,1999 REPSO-CPU-CII International Symposium Financing and Commercialisation of Hydro Power in India, 14-15 April, 1998, Hotel Hyatt Regency, New Delhi ,1998 Process and Chemical Engineering ,1991 The Engineering Index Annual ,1992 Since its creation in 1884 Engineering Index has covered virtually every major engineering innovation from around the world It serves as the historical record of virtually every major engineering innovation of the 20th century Recent content is a vital resource for current awareness new production information technological forecasting and competitive intelligence The world s most comprehensive interdisciplinary engineering database Engineering Index contains over 10 7 million records Each year over 500 000 new abstracts are added from over 5 000 scholarly journals trade magazines and conference proceedings Coverage spans over 175 engineering disciplines from over 80 countries Updated weekly Operator's Manual ,1991 Operator's Manual ,1963 Operator's Manual ,1988

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