THOMSON TECHNOLOGY®
POWER & CONTROL

03 • 12 • 01

Series 2200 • 100 - 6000 AMP

SYSTEM 2000 GENERATOR CONTROL

17.6MW Series System Control for Cernavoda Nuclear Power Plant, Romania

GENERAL DESCRIPTION

The **Series 2200** generator control switchgear line represents 30 years of product development and system design experience. Each product option has been field tested and certified by Thomson Technology engineering and field service personnel providing our customers with proven quality and reliability. The **Series 2200** product line offers the ultimate in custom engineered power generation system control design.

Designs are available to fit any application and can be adapted to fit an owner's specific requirements. Custom engineered systems and design recommendations are available to ensure customers select the system that meets their needs. The **Series 2200** line of products can be utilized with diesel or gas engine generator sets, as well as gas, steam or hydro electric turbines. Applications include prime power, cogeneration distributed generation and standby.

By incorporating advanced communication interfaces, **Series 2200** products can operate in harmony with any site or building management system, providing maximum equipment utilization and total energy management.

All Thomson Technology products are certified by OSHA's nationally recognized testing laboratories, UL or CSA. Thomson Technology systems and products meet or exceed applicable UL, CSA and IEC standards and can be supplied to meet other appropriate standards. Specific standards such as Lloyds, DNV or ABS can be applied to meet your project needs.

For over 30 years Thomson Technology has used internal quality programs to exceed our customer needs for product quality, service and support. Our Q.A. programs have enabled us to supply equipment to the US Department of Defence, Canadian National Defence and NATO. Today ISO 9000 Q.A. registration has become the standard for quality assurance program recognition around the world. Thomson Technology is an ISO 9001:2000 registered company. We consider our formal ISO registration to be recognition of our long established QA policies.

At Thomson Technology we are specialists in generator electric control products and systems.
Our dedication and commitment to this highly unique sector of the market has allowed us to develop **"The Series 2200 Switchgear Line"** and to pass on our experience and quality through a comprehensive custom engineered product package.

ISO 9001-2000

THOMSON TECHNOLOGY INC. • 9087A - 198th STREET, LANGLEY, BC CANADA V1M 3B1

TELEPHONE: (604) 888-0110 • FAX: (604) 888-3381 • E-MAIL: info@thomsontechnology.com • www.thomsontechnology.com

ENGINEERED DESIGNS

SERIES 2200 • 100 - 6000 AMP SERIES

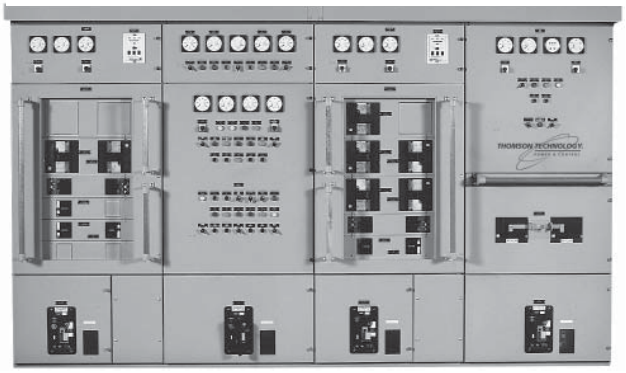
2200MV CG/PG-UPT

Automatic cogeneration, peak shaving and stand-by control system.

RATING: 4200KW, 4160V, 4 generators

OWNER: Windsor Utilities Commission

SITE: Windsor, Ontario



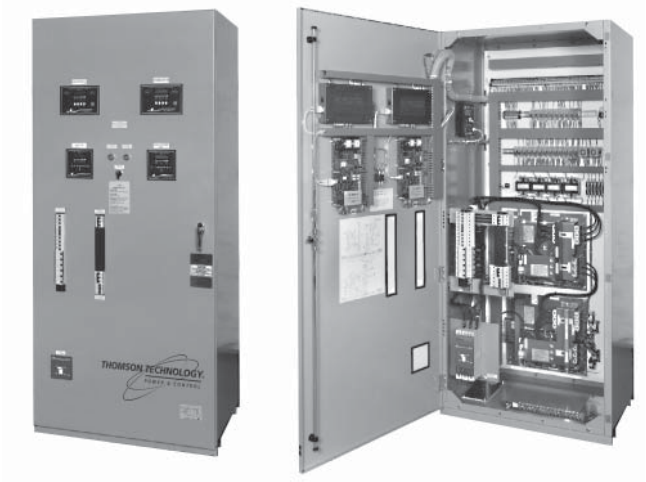
2200 M

Dual synchronizing marine switchgear.

RATING: 500KW, 480V, 2 generators and shore power

OWNER: BC Ferries Corporation

SITE: British Columbia



2200 PCS

Dual standby c/w TS 853-100 transfer switches, TSC 800 transfer switch controllers and MEC 20 engine generator controllers with communication interface module (CIM) and THS 2000 remote communication software.

RATING: 30, 60 and 100KW, 415V, Dual generators

OWNER: China Telecom

SITE: Multiple Microwave Repeater Stations

- Hunan Link
- Xi'an Chengdu Link
- Beijing / Wuhan / Guangzhou Link
- Shanghai / Wuhan Link
- Wuhan / Chongqing Link
- Chongqing / Chendu Link
- Guiyang / Nanning Link

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ENGINEERED DESIGNS

SERIES 2200 • 100 - 6000 AMP SERIES

2200 P-AS

Prime power, auto synchronizing switchboard c/w MEC 100 engine controllers.

RATING: 3MW, 600V, 3 generators

OWNER: Gulf Oil Canada Ltd.

SITE: Jedney, Alberta

2200 PG-UPT®

Parallel Generation-Uninterruptible Power Transfer.

RATING: 500KW, 208/480V, 1 generator

OWNER: Madison Gas & Electric

SITE: Madison, Wisconsin

2200 PG-UPT/RMC

Parallel generation uninterrupted power transfer (PG-UPT®) c/w ECS 500 system controllers, data logging and LINK 500 remote monitoring software.

RATING: 1000KW, 600V, 2 generators

OWNER: Montreal Airport Authority

SITE: Dorval Airport Montreal, Quebec

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ENGINEERED DESIGNS

SERIES 2200 • 100 - 6000 AMP SERIES

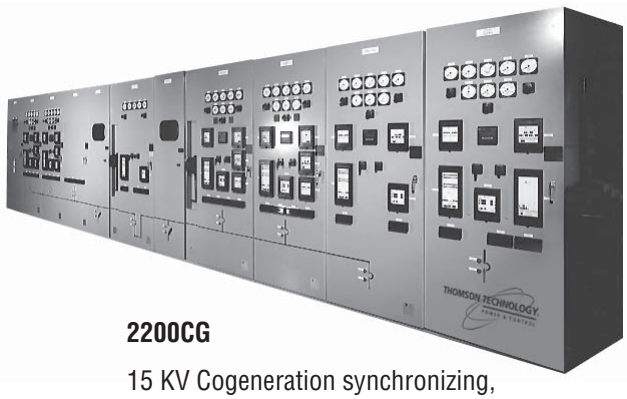
2200MV

4160V generator control switchgear c/w MEC 100 engine-generator controller.

RATING: 650KW, 4160V

OWNER: Children's Psychiatric Hospital

SITE: London, Ontario



2200CG

15 KV Cogeneration synchronizing, protection and distribution switchboard.

RATING: 4 MW, 12.4 KV

OWNER: Valley Medical Center

SITE: Renton, Washington, USA

SERIES 2200 PACKAGE OPTIONS

•GCS 2100	Single cell generator control system, designed for generator(s) operating as standby or prime power units for system voltages up to 600V.
•GCS 2100MV	Single cell generator control system, designed for generator(s) operating as standby or prime power units for system voltages up to 15KV.
•GCS 2200	Multiple cell generator control systems, designed for synchronized generators operating as standby or prime power units for system voltages up to 600V.
•GCS 2200MV	Multiple cell generator control systems, designed for synchronized generators operating as standby or prime power units for system voltages up to 15KV.

SERIES 2200 DESIGN OPTION EXAMPLES

•CG (Cogeneration)	Load displacement cogeneration contol system for gas fired reciprocating prime movers.
•PP (Peak Plus)	Utility intertie control system for automatic peak shaving operation.
•PG-UPT® (Parallel Generation Uninterruptible Power Transfer Distributed Generation)	Automatic synchronizing of generator sets to the utility supply for distributed generation application to allow for uninterrupted, soft power transfers during testing or utility supply re-transfer sequences.
•RMC (Remote Monitoring/Control)	Control, monitoring and data-logging system via MEC 20 and TSC 800 controllers, CIM (Communication Interface Module) and THS 2000 remote monitoring software.
•AS-R (Auto-synchronizing - Random Access)	Auto-synchronizing and load management by random access.
•AS-S (Auto-synchronizing - Sequential Access)	Auto-synchronizing and load management by sequential access.
•M (Marine)	Marinized switchgear to applicable standards, (Lloyds, DNV, ABS, Coastguard).
•PCS (Pulse Control System)	Remote control via pulsed input signals for Microwave repeater station applications.

Request additional information or specifications on any of the System 2000 products from your local Thomson Technology office, agent or distributor. PG-UPT® is a registered trademark of Thomson Technology Inc.

NOTE: Specifications subject to change without notice.

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