



SERIES 2200

100 - 6000 AMP
SYSTEM 2000 GENERATOR CONTROL



Series 2200 100 - 6000 Amp

SYSTEM 2000 GENERATOR CONTROL

GENERAL DESCRIPTION

The **Series 2200** generator control switchgear line represents 40 years of product development and system design experience. Each product option has been field tested and certified by Thomson Power Systems 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 Power Systems products are certified by OSHA's nationally recognized testing laboratories, UL or CSA. Thomson Power 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 Power Systems 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 Power Systems is an ISO 9001:2000 registered company. We consider our formal ISO registration to be recognition of our long established QA policies.

At Thomson Power Systems 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.

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



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ENGINEERED DESIGNS

SERIES 2200 • 100 - 6000 AMP SERIES

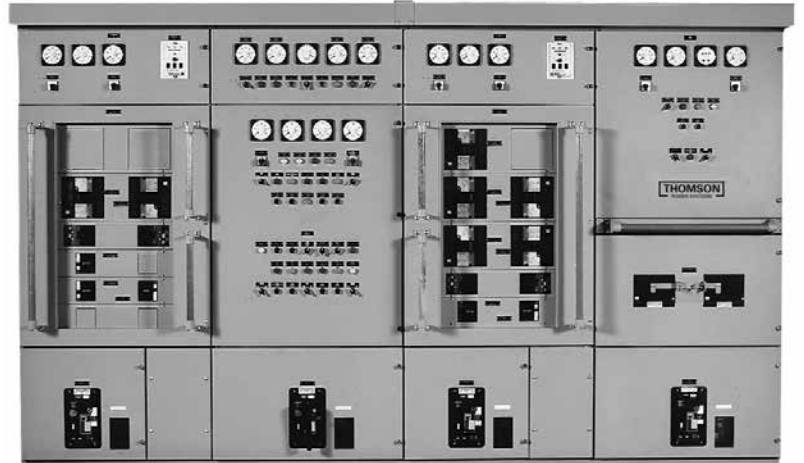
2200 M

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



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ENGINEERED DESIGNS

SERIES 2200 • 100 - 6000 AMP SERIES

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 generatorsV

OWNER: Montreal Airport Authority

SITE: Dorval Airport Montreal, Quebec



2200MV

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

RATING: 650KW, 4160V

OWNER: Children's Psychiatric Hospital

SITE: London, Ontario



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ENGINEERED DESIGNS

SERIES 2200 • 100 - 6000 AMP SERIES

2200CG

15 KV Cogeneration synchronizing, protection and distribution switchboard.

RATING: 4 MW, 12.4 KV

OWNER: Valley Medical Center

SITE: Renton, Washington, USA



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

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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 control 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 TSC7320 and EMB-TCP/IP-DSE-MOXA Ethernet Modbus.
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 Power Systems office, agent or distributor. PG-UPT® is a registered trademark of Thomson Power Systems.

NOTE: Specifications subject to change without notice.



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