

SWITCHGEAR

Protection, reliability & safety for any size power system



Toromont Power Systems switchgear provides industry-leading power generation, distribution and control.

Our modular design gives you unmatched flexibility and scalability, as components can be added and configured to support multiple power sources and loads. And we can work with any manufacturer.

The module houses genset motorized circuit breakers, load take-off lugs or bussing, a low voltage segregated compartment for auto and manual synchronizing control, as well as relays and PLC.



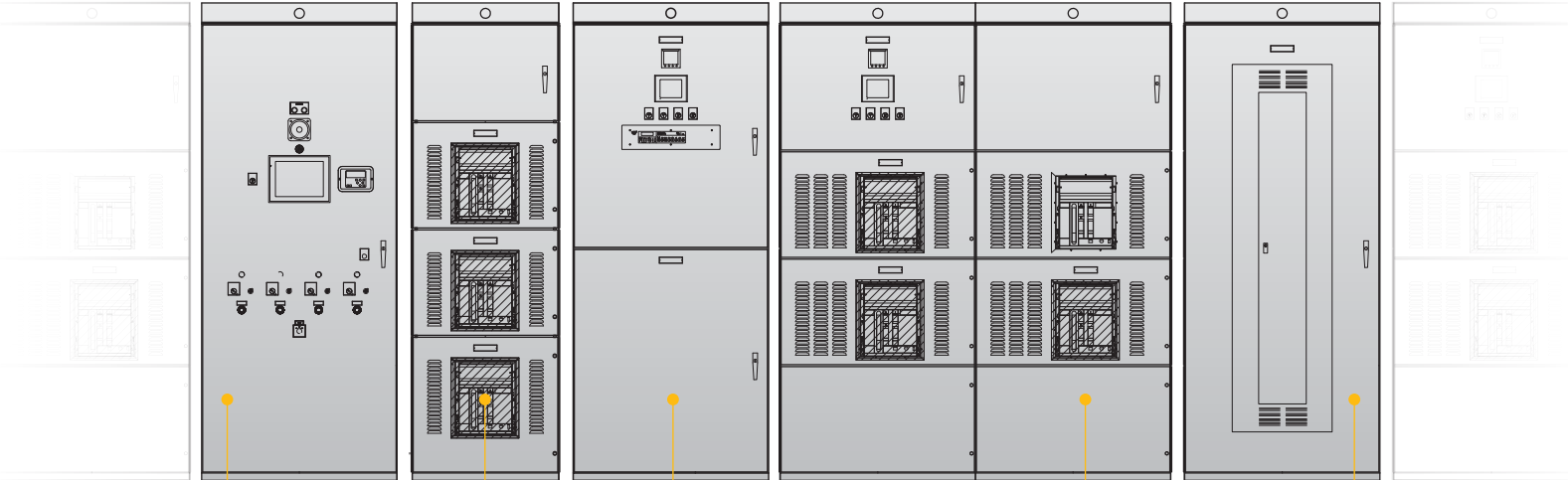
All available modules are built to CSA standards.

SWITCHGEAR FEATURES	Standard	Optional
Offered in low and medium voltage 480/600/4160/13.8KV (Other low and medium voltage can be provided)	●	
Construction: Metal clad, gas insulated and metal enclosed	●	
Access: Front and rear or front only	●	
NEMA 1	●	
Fixed or drawout electrically operated circuit breakers, with or without protective trip units with bus risers for bus duct connection to top	●	
Bottom and/or top cable access configurations also available with bus risers for bus duct connection to top	●	
Auto sync and load share modules, protective relays ¹	●	
Circuit breaker manual closing selector switch (local and/or remote)	●	
Circuit breaker closed/open position lights	●	
Arc resistant switchgear		●
All switchgear industry insulating mediums are available		●
Customized cable entry available		●
BLB: Back up generator & load bank tie in circuit breaker		●
NEMA 2 (sprinkler proof)		●
Silver plated bus bars, or insulated bus bars duct connection to top		●
Controls can be separated from switchgear in separate panel		●

¹See Controls specification for all switchgear control features.

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STANDARD SWITCHGEAR MODULES



MC & GC Module
(Master Control and Generator Control)

MC & GC module can be located in separate controls or in the switchgear. For a full list of module standard and optional features, please refer to the Controls datasheet.

FCB Module
(Feeder Circuit Breaker)

This module can be integrated with your MC & GC module into a single lineup, also available as stand alone for remote installation. Available with or without PLC controlled priority load add/shed management.

- Bottom and/or top cable access configurations also available with bus risers for bus duct connection to top
- Manually or electrically operated circuit breakers
- Air circuit breakers fixed or drawout type
- Molded case circuit breakers
- Circuit breaker manual closing selector switch
- Circuit breaker closed/open position lights

UGS Module
(Utility Genset Synchronization)

This utility synchronizing module ties the MC & GC main bus to the normal utility supply via an electrically operated and PLC controlled circuit breaker mounted in the UGS.*

- PLC managed modes of operation:
 - Load sharing between gensets and utility - Peak shaving/Base loading
 - Continuous full genset power export to utility
 - Genset test mode on building load - no interruption rapid transfer under gradual loading ramp
- Utility grade multi function protective relay
- Power metering

**Requires approval by local Utility.*

ST Module
(Source Transfer - Utility/Emergency)

This module can be integrated with your MC & GC module into a single lineup, also available stand alone for remote installation from MC & GC.

- In phase monitor
- Programmable genset exerciser
- Breaker type
- Open transition
- Cable or bus duct connection configurations
- Built as per CSA C22.2 no 31-1
- Available optional configurations:
 - With bypass
 - With "make before break" closed transition

TLC Module
(Transformer and Load Center)

Transformer and load center allows you to feed your low voltage loads directly from the same switchgear lineup.

- Dry type transformer
- Upstream breaker protection
- Three phase or single phase load center