

# GRIMARD

SINCE 1944

COMBINING OUR STRENGTHS TO BUILD THE FUTURE

Exclusive wall-standing design with no rear access needed

The most space-efficient solution available on the North American market

Metal barriers without openings between primary compartments

100% current rated

Configurable as Generator Paralleling Switchgear or Automatic Transfer Switches

Allows circuit-breaker installation of all major manufacturers

Indoor application

Also available as outdoor NEMA 3R walk-in

Meets ANSI, IEEE, CSA and CSA-US (UL) Standards

**40% of floor space savings !**

## ***MetalGear-WS*** front-accessible low-voltage switchgear

*MetalGear-WS* front-accessible low-voltage switchgear provides the ideal cost-effective solution for industries with high energy requirements and severe space restrictions, without compromising the high availability required by critical industrial processes. As for medium-voltage metal-clad switchgear, metal barriers without openings are provided between each primary compartment to minimize the possibility to transfer or contaminate adjacent compartment during faults. Also, secondary control wiring is isolated from all primary circuits by our unique metal wireway, easily accessible from the front. As an option, isolated busbars are available. Moreover, *MetalGear-WS* is approved for the use of 90°C power cables without the need to oversize them to compensate bus terminal temperatures, as commonly seen on the market.

For critical applications where load interruptions are objectionable, *MetalGear-WS* is also offered fully integrated as Generator Paralleling Switchgear (PSG) or Automatic Transfer Switches (ATS).

## ***MetalGear-WS*** compact dimensions

Thanks to its compact dimensions of 1100 mm (W) x 2350 mm (H) x 900 mm (D) and its front cable and maintenance access, our switchgear can be mounted against a wall.

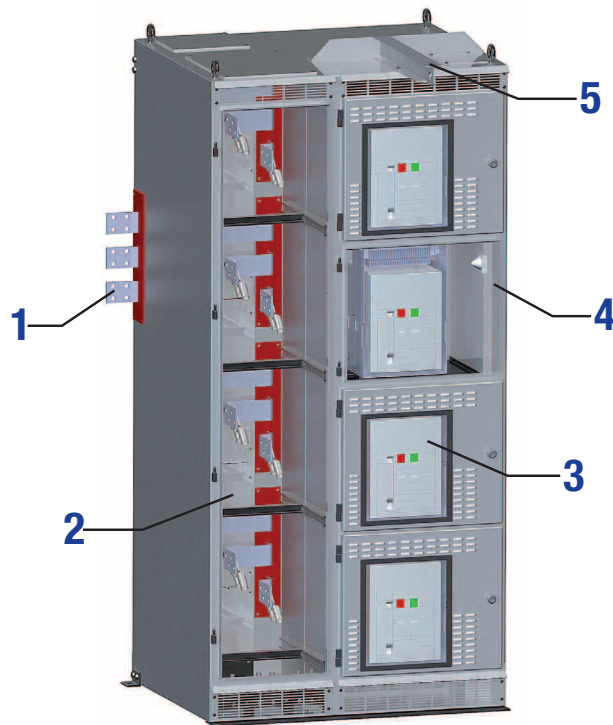


# ***MetalGear-WS***

Each unit consists of the following compartments:

1. Main busbars
2. Power cables
3. Circuit-breakers \*
4. Metallic wireway
5. Breaker hoist docking structure (on request)

\* : An instrument or control compartment can be substituted from one to four circuit breaker compartments

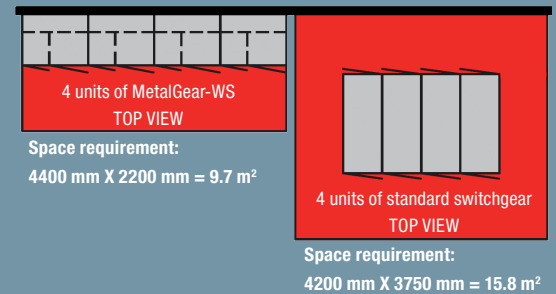


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## General characteristics of *MetalGear-WS* switchgear :

Rated insulation voltage	V	635		
Test voltage at power frequency	kV 1 min	2.2		
Rated frequency	Hz	60		
Rated short-time withstand current	kA 1 s	... 65		
Peak current	kA 3 cy.	... 149.5		
Main busbar rated current	A	800 ... 2000	3000	4000 ... 5000
Rated current of the branch connections	A	800 - 1200 - 1600 - 2000 - 3000 - 4000 - 5000		
Degree of protection	IEC 60529	IP21		
Seismic qualification		0.45 g		
Overall dimensions of basic cubicles	H	2350 mm (93 in.)		
	W	1100 mm (44 in.)	1250 mm (50 in.)	1450 mm (58 in.)
	D	900 mm (36 in.)		

## Floor space requirements for your LV switchgear :



**40% of floor space savings !**



## Industrial sectors :

- Mining
- Marine
- Health care
- Metal industry
- Oil and Gas
- Energy