

Your sales contact:  
[quotation@grimard.ca](mailto:quotation@grimard.ca)

Technical support:  
[powerproducts@grimard.ca](mailto:powerproducts@grimard.ca)

Toll free:  
1 (866) GRIMARD

Full  
90°C Cable  
Current Rating

## MetalGear

### Low Voltage Metal-Enclosed Switchgear

MetalGear is a Utility Grade low voltage metal-enclosed switchgear designed to meet the high availability levels required from energy utilities. MetalGear is approved for the use of 90°C power cables without the need to oversize them to compensate bus terminal temperature, as commonly seen on the market.

#### Features

- Flexible design allowing customization according to specific customer requirements

#### Safety by design

- Engineered and completely tested according to IEEE C37.20.1
- Maximum temperature rise of 45°C at 100% current rating on power cables terminal pad
- Copper busbar with high quality tin plating for 100% current rating during all service life
- Rod test compliant

#### Compatible switching devices

- ABB Emax 2
- Eaton Magnum DS
- Schneider MasterPact NT/NW
- Siemens WL
- Others on request

#### Standards

- IEEE C37.20.1
- CSA C22.2 no 31
- UL 1558

#### Options available

- Solid Epoxy bus insulation and halogen/chlorine free boot cover
- Copper busbar with premium silver plating (to differentiate from very thin flashing commonly mislabeled silver plating)
- Minimum 11 gauge (3 mm) steel thickness
- Metal barrier between adjacent cable compartments and/or between main bus and cable compartments
- Amagnetical power cable entry plate
- Power cable support
- 4 pole breakers
- Motorized or manual breaker hoist
- High-resistance grounding
- Type 12 or 3R enclosure



Each unit consists of the following compartments:

1. Main bus
2. Power cables
3. Circuit breakers\*

\* : An instrumentation/control compartment can be substituted for one to four circuit breaker compartments



## General features of MetalGear switchgear:

Rated insulation voltage	V	635		
Test voltage at power frequency	kV 1 min	2.2		
Rated frequency	Hz	50/60		
Rated short-time withstand current	kA 1 s	22 - 42 - 65		
Peak current	kA 3 cy.	... 149.5		
Main busbar rated current	A	800 ... 2500	3200	4000 ... 5000
Rated current of the branch connections	A	800 - 1200 - 1600 - 2000 - 2500 - 3200 - 4000 - 5000		
Degree of protection	CSA C22.2 no 94 no. 94	Type 1 - 2 - 12 - 3R		
Seismic qualification		0.5 g		
Overall dimensions of basic cubicles	H	90.5 in. (2300 mm)		
	W	23.6 in. (600 mm)	31.5 in. (800 mm)	39.4 in. (1000 mm)
	D	58 in. (1475 mm)		



## Application Sectors:

- Data Center
- Infrastructure & Transportation
- Metal Industry
- Mining
- Oil & Gas
- Power Utilities