

xEnergy: Make way for progress by integrating innovation

Of course, we all like the idea of progress, but often what we really need are tangible, practical solutions – innovations we can implement and use right now.

And that is precisely why Eaton has developed xEnergy. This switchboard system has been designed so that Dynelec can configure your projects efficiently to meet your own specific requirements – from planning and assembly to installation. It provides the ideal basis for building infrastructures up to 6300 A.

xEnergy cleverly combines switching and protective devices, mounting systems and enclosure components, so that you can work quickly and efficiently in your workshop and easily integrate future innovations as they arise. Ideal modules, intelligent system platform. Is it possible to bridge the divide between increasingly stringent technological and safety requirements on the one hand, and cost reduction on the other? Eaton's answer to this question is a resounding 'Yes' – and it has developed the latest generation of switchboard systems to prove its point.

Eaton's xEnergy system range thinks ahead by allowing for

tomorrow's requirements today. The xEnergy's switching and protective devices, mounting and switchboard systems together form a single technical and cost-effective economic unit that offers you the best in power management, switching and control.

How does it work? Quite simply: the system's modular design allows for a wide range of intelligent combinations. That means you save time, money and space. And because you can also rely on Eaton's excellent reputation for safety, you can implement individual projects in industrial and mining applications simply, quickly and flexibly.

System features and benefits

Functionality is a fundamental, individuality is the future

The xEnergy switchboard system consists of IEC/EN 60439/61439 type tested function modules which provide compliance with AS/NZS 61439. These have an internal separation up to Form 4, and comply with various national or regional installation requirements, such as DIN VDE, CEI, NF or UNE. This means you can design customised solutions for use in several different countries.

The xEnergy system offers you a wide range of options for implementing power distribution reliably, economically and fully in accordance with your requirements.

You can use feeder and coupling sections for circuit-breakers up to 6300 A, and individually equipped outgoer sections with fixed and removable compartment modules for switching and protective devices up to 630 A.

Outgoer sections up to 630 A for switch-fuse strips, fuse rails and fuse switch-disconnectors are also available.

Control sections and empty sections can be combined as required for installing ancillary components such as motor starters, PFC modules, frequency inverters, soft starters or for automation solutions. The mounting systems for rail-mounted service installation devices can be used in conventional service distribution boards.

Licensed Assemblers

Eaton fully trained Licensed Assemblers offer you locally customised solutions fully compliant with Australian standards backed by Eaton's engineering and design expertise.



IZM/Magnum circuit-breakers for xEnergy power sections

- Type-tested switchgear assemblies (TTA) up to 6300 A
- Clear and symmetrical design with only one circuit-breaker per section reduces the number of busbar connections and saves mounting requirements
- Internal separation up to Form 4 increases personnel and system protection
- Fast and direct allocation of circuit-breaker mounting kits for the mechanical fastening of circuit-breakers
- High level of flexibility in the terminal area thanks to alternative connection options

NKM and PKZ circuit-breakers for xEnergy outgoer sections

- 3-pole and 4-pole switching and protective devices, type-tested switchboard systems (TTA) up to 630 A
- Max. 38 fixed compartment modules in one section (H 50 mm), optimum device utilisation despite high packing density
- Flexible module mounting to Form 4 with different device mounting depths, however with standard operating front
- Simple module mounting to Form 2 on one mounting depth
- Highly flexible combination possible for functional areas and busbars in accordance with IEC/EN 60439/61439 and national installation practice

xEnergy product features



XP Power Sections

- Incoming supplies, outgoers and couplings with circuit breakers
- Internal separation up to form 4
- Cable connection from the top or bottom
- Incoming supply system for drill-free cable connection



XF Fixed

- Power outgoers with circuit breakers and fuse switch disconnectors up to 630 A
- Internal separation up to form 4
- Individual outgoers, such as controlgear, motor starters, small power outgoers etc



XW Withdrawable

- Power outgoers with circuit breakers up to 630 A
- Outgoers for motor starters up to 250 KW
- Empty drawers for individual applications
- Easy and uniform handling for all drawer sizes
- Drawers can be replaced under live-line working conditions
- Internal separation up to form 4
- Unambiguous position indicator for operating, test or de-energised status
- Easy maintenance without the need of using any special tools for replacement jobs
- Minimum down times



XR Removable

- Power outgoers with circuit breakers
- and strip type switch-disconnector-fuse, up to 630 A
- Empty modules for individual applications
- Plug-in modules and strip type switch-disconnector-fuse can be replaced under live-line working conditions
- Internal separation up to form 4
- Easy maintenance and reduced down times



XG General

- Power factor corrections
- Fitting systems for sub-distribution
- with devices for modular installation
- Control technology with SASy 60i and xStart
- Individual fixed units on a mounting plate

xEnergy Licensed Partner.



Introduction

At DaRa we pride our selves on being one of the few Australian switchboard manufacturers that have an in-house enclosure fabrication capability and engineering team under one roof.

We work closely with our customers to find a solution Incorporating customer specifications - heights, spaces and applications - Our engineering team work hard at designing a value proposition for our customers and building switchboards.

At DaRa, we provide more than just your standard switchboard. We offer consistently high service levels that distinguish us in the market, and we make it our mission to deliver the best quality custom electrical switchboards on the market.

Our custom services are offered at competitive prices, so you can choose the perfect switchboard without having to sacrifice quality for cost.

At DaRa we understand the importance of the latest technology, we design and manufacture switchboards for clients in the industrial and commercial sectors including but not limited to the mining, petrochemical, utility and solar industries.

Our switchboards are also designed to effectively meet Green Star rating standards, are applicable for both internal and external use, due to weatherproofing and can be designed to fit even the smallest of spaces.

As we understand every client, building and project is different, we consider each customer to be as unique as the switchboards we design for them.

DaRa, Switchboards partnered with Eaton in 2018 as a licenced panel board builder and we have been manufacturing electrical switchboards since 2010 and we are an ISO9001:2015 accredited company.



Eaton's mission is to improve the quality of life and the environment through the use of power management technologies and services. We provide sustainable solutions that help our customers effectively manage electrical, hydraulic, and mechanical power – more safely, more efficiently, and more reliably. Eaton's 2019 revenues were \$21.4 billion, and we sell products to customers in more than 175 countries. We have approximately 93,000 employees. For more information, visit Eaton.com.

For more information, visit www.eaton.com.

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Printed in Australia
September 2016

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Product information - Type-tested switchboard systems
xEnergy Australia



Convincing in terms of safety,
performance & operational availability.

