eta

innovative
enclosure solutions
for industrial & electronic
applications

ENERPOWER

YOUR POWER, OUR PROTECTION

ETA **A reliable partner at your side**

ISO 9001

With over thirty five years of experience in processing sheet steel, stainless steel and extruded aluminium, and as a leading Italian manufacturer of electrical enclosures for Industrial Automation and LV Energy Distribution, ETA is now recognized as a benchmark on the global marketplace.

- **Certified company** with Headquarters in Italy
- **Two logistics centres** in France and UK, **one branch office** in Cyprus for the Middle East area, and **one representative office** in St. Petersburg, Russia
- Representation in **over 40 countries worldwide**
- **Three production plants** and **one logistics centre**
- **A Group Staff** comprised of over 200 personel
- **Cutting-edge technology, certified products** and continuously monitored business processes

ENERPOWER
The new energy pathway

ENERPOWER,
a unique design
for three new Electricity Distribution solutions

1

Power Centres with busbar trunking systems installed in the transformer substations downstream of the MV/ LV transformers or generators

2

MCC - Motor Control Centres with fixed mountings, for the centralized control and protection of the motors

3

Secondary Energy Distribution panels with lower usage current and short circuit resistance

eta,
your single reference point
for the energy management, from Power distribution to Industrial & Civil automation

4

On-board machine panels for interfacing the machinery with both the power source and the operator thanks to a wide range of modular, single-piece and compact cabinets, wall-mounted connection boxes or junction boxes, control desks, PC solutions and much, much more...

Express your power,
ETA will protect it...

Structure made from high strength steel in order to ensure greater mechanical resistance

Dedicated functional units for each device

Cover panels finished in standard textured RAL7035 colour, standard ETA painting cycle with epoxy polyester powder coating

Galvanized structure with magnelis ® coating: eco-friendly with self-healing protection, in order to ensure aesthetic results of exceptional quality

Simplified structural assembly thanks to the components' high degree of standardization, flexibility and modularity

Cable entry from above or below for multiple installation types

UNIVERSAL

All holes threaded M6, for an easy assembly

Functional unit suitable for forms of segregation up to 4b

Available in a wide range of sizes, even for use in combination:

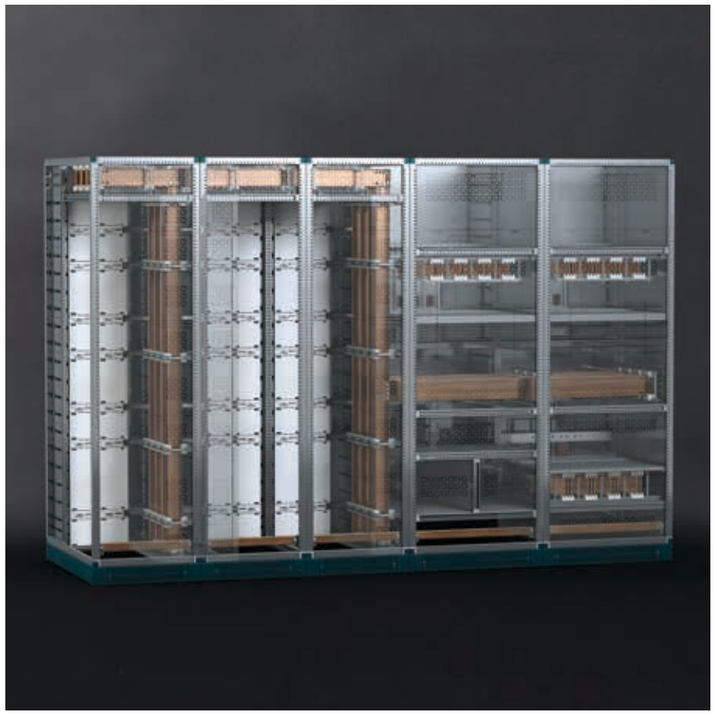
W	600 700 800 900 1000
H	2000 (+100 plinth) 2200 (+100 plinth)
D	1000 1200 1400

Compatibility with the various types of devices produced by the market's leading brands and manufacturers (fixed, removable, extractable)

ENERPOWER system subjected to the test types required by the IEC 61439-1-2 standard, with performance guaranteed by tests carried out under normal operating conditions

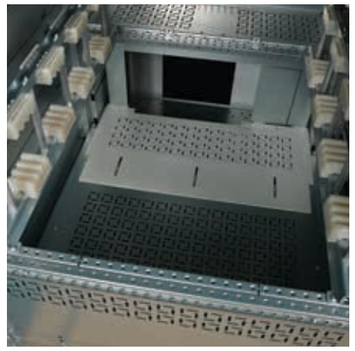
Protection rating IP30, possibility to be increased to IP31

ENERPOWER
... with a complete system designed specifically for you



- Certified busbar systems with In up to 4,000 A and Icw up to 100kA/1s
- Horizontal omnibus busbar system capable of being installed in upper, lower and intermediate positions
- Possibility of powering the devices from the right or left hand sides with a single busbar position, thus reducing installation times and raw material costs

1



2

1 Moulded case circuit breakers functional unit
2 Open switch functional unit with form of segregation 4b
3 Forms of segregation 3b and 4b
4 Accessories for fixing outgoing tangs' extensions
5 Insulating supports for busbars
6 Power connection zone easily accessible from the rear of the panel in order to ensure high safety levels during the performance of any maintenance interventions upon the various functional units
7 Removable equipment holder plate on the front with continuous depth adjustment

3

4

7

5

6

A unique design for ENERPOWER: Power Center, MCC and Secondary Energy Distribution panels

8

9

8 Dual tab lock system for locking the functional units' doors

9 Easy to install thanks to the threaded holes and the use of M6 screws only

10 Suitable for grounding connection

11 Facilitated handling thanks to the possibility of positioning the base element on a pallet from all four sides

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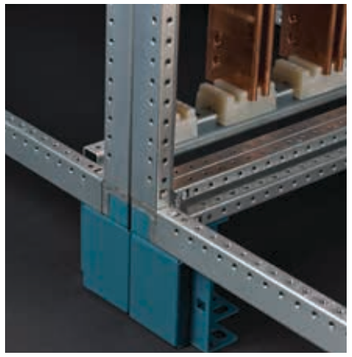

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15

When the combination creates performance: MCC with fixed drawers and removable inner plates

Structure made from high strength steel in order to ensure greater mechanical resistance

Galvanized structure with magnelis® coating: eco-friendly with self-healing protection, in order to ensure aesthetic results of exceptional quality

Easy replacement of the plates of the functional units, even in operation

Simplified structural assembly thanks to the components' high degree of standardization, flexibility and modularity

Functional unit with forms of segregation 3a/3b

Cover panels finished in standard textured RAL7035 colour, standard ETA painting cycle with epoxy polyester powder coating

Available in a wide range of sizes, even for use in combination:

W	600 700 900 1000 1200
H	2000 (+100 plinth) 2200 (+100 plinth)
D	600 800

ENERPOWER system subjected to the test types required by the IEC 61439-1-2 standard, with performance guaranteed by tests carried out under normal operating conditions

Cable entry from above or below for multiple installation types

UNIVERSAL

All holes threaded M6, for an easy assembly

Protection rating IP30, possibility to be increased to IP31

Typical column offered in three combinations:

Combination 1

W = 600 / 700 mm

Combination 2

W = 900 mm (A = 600 + B = 300)
W = 1000 mm (A = 600 + B = 400)
(A = 700 + B = 300)
W = 1200 mm (A = 800 + B = 400)

Combination 3

W = 1200 mm
(C= 300 + A = 600 + B = 300)

The perfect solution for your requirements

16

17

- Busbar system on the back and possibility of cable entry/exit from the top or from the bottom
- Busbar system on the roof with vertical distribution busbars accessible from the front, and possibility of cable entry/exit from the bottom
- Rated current In = 1600 A
- Rated short-time withstand current Icw 50kA/1s

18

19

16 Busbar system from the back
17 Busbar system from the roof
18 Functional units
19 Functional unit dedicated to input line

20

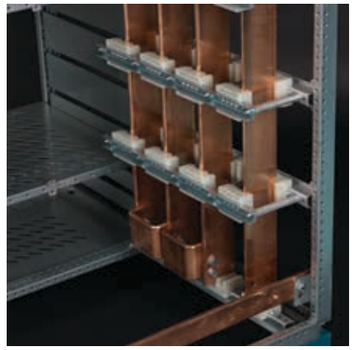
22

21

20 Cable entry module with provision for functional units
21 Lower cable entry with pre-punched exit
22 Housing terminal

Performance guaranteed by tested and certified solutions

1. Short circuit resistance testing performed at the prestigious ABB Sace laboratory of Bergamo (Italy). Relative certification nr. 175 “Assemblies and Panels - Busbars systems in the ENERPOWER panel” issued by ACAE of Bergamo (Italy) based on the LOVAG reports issued by ABB Sace.
2. Verification of Temperature-rise Limits carried out at the I.N.RI.M. laboratory of Turin (Italy) with test report nr. 14-0114-01.

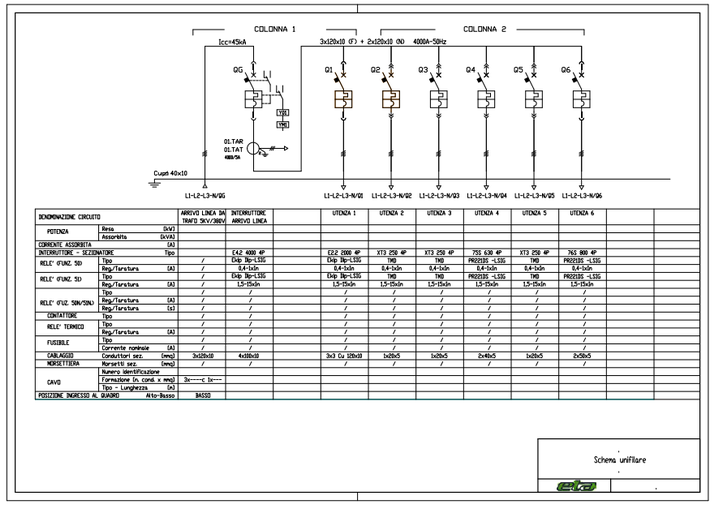


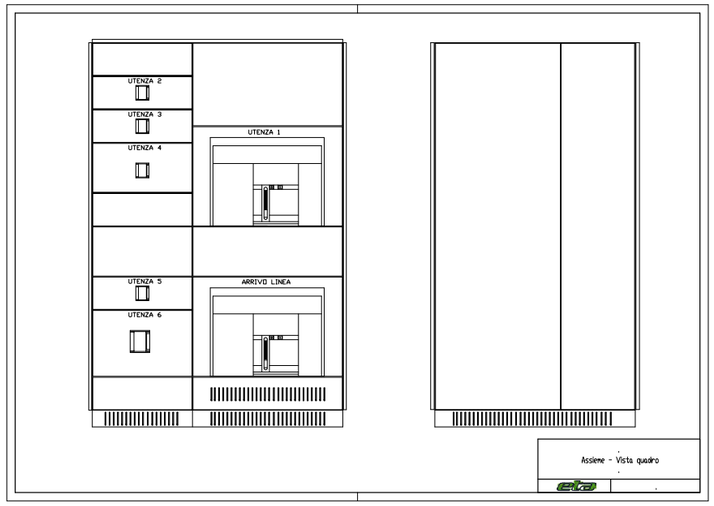
ENERPOWER system subjected to the test types required by the IEC 61439-1-2 standard

Rated frequency	50Hz
Rated voltage Ue	400V~ o 690V~
Rated insulation voltage Ui	1000V
Rated impulse withstand voltage Uimp	12kV
Rated current	Up to 4000A In
Rated short-time withstand current Icw/1s	Up to 100kA
Admissible rated peak withstand current Ipk	Up to 220kA
Forms of segregation	Up to 4b
Protection rating	IP30 (IP31 with kit)
Normal operating conditions	Ambient temp. ≤ 40°C Pollution rating ≤ 3 Installation height ≤ 2,000 m

ENERPOWER

New project? You can rely on us!





Starting from the electrical diagram for your final application, our technical staff will determine the most suitable configuration for the ENERPOWER front panel, providing documentation, technical drawings and qualified support throughout the entire course of the project.

And for those who prefer to design the ENERPOWER system by themselves, simply connect to our new on-line configuration application, which allows you to create the bill of materials and all the necessary technical drawings in just a few simple steps.

COMING SOON

ETA A reliable partner at your side

All the mechanical and electrical skills necessary for complete system development

Pre-and post-sales support with exceptional service quality

Flexibility and customization capabilities for special projects

innovative
enclosure solutions
for industrial & electronic
applications

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ETA chooses sustainable paper.
Fedrigoni, Symbol Freelife Gloss, Premium White.