

QDP POWER CENTER

Low Voltage Switchgear for Power Distribution

Power Center serie QDP:

QDP is a Low Voltage Switchgear, that is characterized by:

- a modular construction, divided into metallic compartment;
- guarantee service continuity;
- guarantees maximum safety,
- an easy inspection and maintenance;
- minimum overall dimensions;
- to be designed to suits customer's requirements.

Standards and Certifications

International standard	IEC 61439-1/2
Italian standard	CEI EN 61439-1, CEI EN 61439-2, CEI EN 60529, CEI EN 60865-1

Type tests

Certificate issued by CESI as per Standard CEI EN 60439-1 for low voltage switchgear Power Center segregation form 4.

$$V_n = 400V \quad I_{cc} = 100kA \quad I_{pk} = 220kA$$

Main Electrical Features

Operating voltage	400 Vca
Rated current	6300 A
Insulated voltage	1000 V
Rated short-time withstand current	105 kA
Rated peak withstand current	231 kA
Rated impulse voltage	12 kV
Rated frequency	50-60 Hz



Constructive Features

External protection degree	from IP30 to IP54
Opened doors protection degree	IP 20

The IP54 version has a transparent tempered glass door as per standards.

Service and environmental conditions

Type of installation	outdoor
Maximum environmental temperature	+ 40° C
Minimum environmental temperature	- 5° C
Relative Humidity	90%

Standard dimensions

Maximum length	400/500/625/800/1000/1200/1400 mm
Cabinet height	2000/2200/2400 mm
Cabinet depth	5500/625/800/1000/1200/1400/1550 mm

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Switchgear composition

The switchgear is composed by:

1- Busbar System and power connections unit

The busbar system is located on the rear side, horizontally or vertically anchored with special isolated supports:

- Omnibus main bars, located on the upper side, behind the cubicles, made of copper with angular corners.

Nominal capacity:

630A-800A-1000A-1250A-1600A-1800A-2000A-2500A-2900A-3200A-3600A-4300A-4600A-5600A-6300A

- Distribution busbars, located behind the cubicles
- Connection cables or bars for connection of distribution busbar to breakers

On request it is possible a design with a busbar system:

- Completely insulated with thermoplastic material
- Silver-plated
- With silver plated terminals.

2 - Power cable connection compartment

Power cable connection compartment is the cabinet section in which is possible the connection among the switchgear and electrical utilities on site; it is designed to ease the interconnection with external cables according to safety rules.

3 - Switches, Instrumental and Auxiliary Unit

Located in the front part of the cabinet, and separated by metal barriers from the rear side of cabinet with a hinged door at the front, the switch compartment is modular to permit design as required and may be fitted with one or more fixed, removable or withdrawable breakers, as required.

The instrumental and auxiliary unit is located in the front of the switchgear inside a cell protected by a hinged door, containing measurement devices and auxiliary services.

