





Our Power & Control line of Business offers solutions that safely distribute power to your home or business.

Our product range includes Low/Medium Voltage Panels and Enclosures designed and built with features, ratings, and performance that consistently help you meet the needs of specification, consultants and contractors.

We also provide a complete line of residential, commercial and industrial wiring devices and accessories developed by our own manufacturing facilities.

## Egy Pan

- Attractive design suitable for either flush or surface mounting.
- Slim and optimized dimensions without compromising internal Wiring space.
- Simple and easy installation.
- EgyPan comes complete with a wide range of accessories including top & bottom extension boxes and Flange plates with knockouts, additional earth and neutral bars.
- Unique product packing allows for reduced storage and shipping costs.
- Reduced installation times as the top cover & the door are packed upside down within the enclosure. Removal of fixing screws for the cover & the door is not necessary

### Technical Data

Standard: IEC 3 -439 & BS 60439 part 3 & 1

Degree of protection: IP 41

Enclosure material: Cold rolled sheet steel

Box and cover 1 mm

Enclosure finish: Grey, RAL 7035

Flush or surface mounting.

Multi row type

Max. Load: 100 A

Max. Voltage: 400 / 230 V AC, 60 / 50 Hz

Range: 42 ,28 and 56 modules

3 ,2 and 4 rows

Busbar type

Max. Load: 160 A

Max. Voltage: 400 / 230 V AC, 60 / 50 Hz

Range: 8 ,6 ,4 and 12 TP&N ways

24 ,18 ,12 and 36 SP&N ways

Fault level: 35 kA



## Selection of structure: (WALL MOUNTED DISTRIBUTION PANELS)

| No. of installable<br>DIN Modules | Vertical | Horizontal | Dimensions |    |   | DIN rail<br>+drilled panel | DIN rail<br>Adj. |
|-----------------------------------|----------|------------|------------|----|---|----------------------------|------------------|
| 8                                 | ●        |            | 22         | 20 | 8 | ●                          |                  |
| 18                                | ●        | ●          | 30.8       | 25 | 8 | Optional                   | ●                |
| 24                                | ●        | ●          | 40         | 32 | 8 | Optional                   | ●                |
| 36                                | ●        | ●          | 45         | 32 | 8 | Optional                   | ●                |
| 48                                | ●        | ●          | 67.2       | 32 | 8 |                            | ●                |

| Phase Type   | Electric Meter Type |         | No. of modules |
|--------------|---------------------|---------|----------------|
|              | Analogue            | Digital |                |
| Single Phase | ●                   | ●       | -              |
| Single Phase | ●                   | ●       | -              |
| Three-Phase  | ●                   | ●       | -              |
| Single Phase | -                   | -       | 12             |
| Three-Phase  | —                   |         | 24             |



Mini Egy Pan

| Dimensions |    |    | Metal Thickness<br>(mm) | With<br>Door | Without<br>Door |
|------------|----|----|-------------------------|--------------|-----------------|
| 15         | 20 | 10 | 1 or 1.5                | ●            | ●               |
| 25         | 25 | 10 | 1                       | ●            | ●               |
| 30         | 30 | 10 | 1 or 1.5                | ●            | ●               |
| 40         | 30 | 10 | 1                       | ●            | ●               |



## Smart Egy Pan

Smart Egy Panel boards have been designed for easy handling and quick, simple installation for the electrical contractor. Compact product design ensures maximum cabling area within the enclosures. Removable top & bottom gland plates are provided for ease of installation and cabling.

### Technical Data

Standard: IEC 1-439, EN 1-60439/BS EN 3& 1-60439  
 Max. Load: 400 Amps  
 Max. Voltage: 415V ac, 60/50 Hz  
 Rated insulation voltage: 1000V ac  
 Rated operational voltage: 690 V ac  
 Range: 12 ,8 ,6 ,4 and 16 TP&N ways  
 Incoming Device: Max. 400 Amp, TP MCCB size T5  
 Outgoing Device: Max. 125 Amps, TP or SP MCB S800  
 Protection degree: IP 42 (IP54 as an option on request)  
 IP 20 for pan assembly~  
 Color: RAL 7035  
 Rated short time withstands current: 36 KA at 415V. 0.25 pf  
 Rated peak withstand current: 75.6 KA at 415V. 0.25 pf  
 Rated impulse withstand voltage: 6 kV  
 Enclosure material: Cold rolled sheet steel 1.5 mm

### No. Of installable DW Modules

12

18

24

36

48



## Grand Egy Pan

Easy to transport & fast to assemble Grand egy pan , the innovative enclosure system offers maximum safety, functionality, flexibility, quick and simple assembly. Grand Egy Pan is an extendable system where standardized components can be assembled quickly and cost-effectively into a complete individual panel. A unique quick-fasten element lies at the heart of the quick assembly system. It connects the individual enclosure sections to one another firmly and securely by a simple turning action. No more drilling, no more screwing and bolting! Assembly time is reduced. This quick-fastener element guarantees the grounding of the enclosure after assembly. Its special construction makes it completely resistant to vibration.

## Grand Egy pan convenience

For your convenience Grand egy pan is offered in two variations: completely assembled cabinets or as a flat pack kit for customer assembly

Whether used for in-house installations or industrial applications, the extremely well

Designed Grand egy pan system offers a host of decisive advantage

## Grand Egy Pan Advantages

- Pleasing appearance with attractive details
- No visible mounting or connection elements
- Enclosure covers and bottoms are pre-punched
- A multitude of usable modules: e.g. EIB modules  
Flat pack versions offer additional benefits:
- A clear and logically structured packaging system
- Low freight costs due to reduced transportation volume
- Quick and simple assembly
- Easily understandable assembly instructions
- Minimal packaging material
- Outstanding material and workmanship quality

## Technical Data

Standard (Regulations) : IEC 1-439/EN 1-60439/BS EN 3&1-60439

Max. Load

Wall mounted: 250 A

Free standing: 630 A

Max. Voltage: 400V ac, 60/50 Hz

Rated insulation voltage  $U_i$  : 1000 V AC

Rated operational voltage  $U_e$  : 690 V AC

Degree of protection: IP 30 without Door

IP 41 with Door

IP 54 on request

Color: RAL 1013) 7035 available on request)

Rated short time withstand current: 35 KA

Enclosure material: Cold rolled sheet steel 1.5 mm  
(Aluzinc steel on request)



Dimensions

| H   | W  | D  |
|-----|----|----|
| 40  | 30 | 15 |
| 40  | 30 | 20 |
| 50  | 40 | 15 |
| 50  | 40 | 20 |
| 50  | 40 | 25 |
| 60  | 40 | 15 |
| 60  | 40 | 20 |
| 60  | 40 | 25 |
| 70  | 40 | 25 |
| 60  | 50 | 15 |
| 60  | 50 | 20 |
| 70  | 50 | 20 |
| 70  | 60 | 20 |
| 80  | 60 | 20 |
| 80  | 60 | 25 |
| 80  | 60 | 30 |
| 100 | 60 | 25 |
| 100 | 60 | 30 |
| 100 | 80 | 25 |
| 100 | 80 | 30 |
| 115 | 80 | 30 |
| 115 | 80 | 40 |

\*Special Sizes available upon request



## Pillars

Pillars, MCC and power factor correction:  
our range of Low Voltage Distribution Boards include  
those for main distribution, sub distribution and Motor  
Control Centers suitable for different applications  
depending on customers' requirements.







## Medium Voltage Distribution Panel



## Air ring main unit

Our Air Ring Main Unit for secondary distribution is a factory-built, metal-encapsulated switchgear; suitable for either indoor or outdoor installation.

They integrate from 1 to 4 load-break switches for cables or transformer, an earth-fault indicator and an arc-extinguishing device.

The ARMU also has the option for installing Metering devices.

### Main Features:

- High operating reliability.
- Simple maintenance & inspection.
- No isolating partitions.
- High dynamic & thermal strength.
- Tested by international laboratories
- Encapsulated extinguishing device.
- Current interruption without visible arc.
- High number of operation, simple mechanism.
- Easy cable connection.
- Possible to be connected with any SCADA system.

### Design Standards:

The Air Ring Main Units are designed, manufactured and tested according to the following IEC & VDE standards

- IEC publication 200-60271
- IEC publication 60694
- IEC publication 102-60271
- IEC publication 420
- IEC publication 265
- IEC publication 129
- DIN VDE 0670

### Applications:

The Air Ring Main Unit is suitable for use in:

- Transmission & Distribution
- Buildings
- Industry
- Infrastructure

## Medium Voltage



### SF-6insulated Ring Main Unit:

- Our SF-6insulated Ring Main Unit for secondary distribution is a type-tested, factory-built, metal-encapsulated switchgear in block/modular construction; for indoor installation.
- All the switching devices are fully-insulated with SF6 gas and comprise; load-break switches, earthing switches, metering, bus riser, bus sectionalized panels, SF6 circuit breakers as well as blocks.
- Our SF6 Ring Main Units are ready to be integrated with SCADA systems, and other forms of remote controlling whether via compact remote controlling units or for larger switchgear rooms in need of such control.

#### Main Features:

- Climatic resistance; because all the live parts are insulated in SF6 gas.
- Compact size when compared to the Air-insulated RMU.
- Easy accessibility of cables & fuse arrangement.
- All the live parts are insulated in a stainless steel tank of IP65.
- German technology.
- High level of function reliability.
- Comprehensive personnel safety.
- Connectable to SCADA system.

#### Design Standards:

- IEC publication 103-62271) 1-60265)
- IEC publication 1-62271 (IEC 60694)
- IEC publication 100-62271
- IEC publication 102-62271
- IEC publication 105-62271
- IEC publication 60298) 200-62271)
- IEC publication 1-60282
- VDE 0670 Part 301 (VDE 0671 Part 103)
- VDE 0670 Part 1000 (VDE 0671 Part 1)
- VDE 0671 Part 100
- VDE 0671 Part 102
- VDE 0671 Part 105
- VDE 0671 Part 200 (VDE 0670 Part 6)
- VDE 0670 Part 4

#### Applications:

The SF6 Ring Main Unit is suitable for use in:

- Transmission & Distribution
- Buildings
- Industry
- Renewable Energy



## Package substation:

Our Package Substations are metallic enclosures of multiple compartments that are interconnected but clearly separated.

Package Substation exists in 3 Compartment Structures in the following forms:

MV Switchgear – Transformer – MV Switchboard

MV Switchgear – Transformer – LV Switchgear

### Main Features:

- Can integrate Air or SF6 insulated Ring Main Units with various configurations.
- Can integrate Oil or Dry-type transformers.
- Integrated metering and protection (optional).
- Provisions for remote monitoring and control of switching devices on MV or LV compartments.
- High climate & corrosion resistance.
- High operation reliability.
- Operating personnel safety.
- Easy installation of power transformer.
- Rapid Installation for under urbanization sites.
- Available with digital electronic locks which can be remotely controlled.
- All interconnecting equipment between Medium Voltage and Transformer and Low Voltage are factory tested.
- Adequate space for inspection and maintenance of transformer or capacitor banks (walk-in accessibility).
- Can be connected with SCADA system.

### Design Standards:

Our Package Substations are manufactured according to the following IEC & VDE standards

- IEC publication 102-62271.
- IEC publication 60420
- IEC publication 60265
- DIN VDE 0670

### Suitable for the following applications:

- Buildings
- Real Estate Development Projects
- Infrastructure
- Industry

## Air Insulated Metal Clad

Our Medium Voltage Switchgear for primary distribution has a rated voltage of up to 24 kV.

Our two types of metal clad switchgear include AMC & MCM, up to 17.5 kV & 24 kV respectively and uses Vacuum Circuit Breakers as a breaking medium.

### Main Features:

- Switchgear in withdrawal technique.
- Four metal-clad compartments.
- All standard types of protection and control systems can be used.
- Cable connection compartment with separate access door.
- High reliability.
- High security of supply.
- Maximum personnel safety.
- Low-maintenance switchgear.
- Options for customer-specific equipment.
- Easy-to-install panel structure.

### Design Standards:

The Air Insulated Metal Clad Switchgear are manufactured according to the following IEC & VDE standards:

- IEC publication 200-62271.
- IEC publication 60694
- IEC publication 100-62271
- IEC publication 102-62271
- DIN VDE 0671 Part 200
- DIN VDE 0670 Part 1000

### Applications:

Air Insulated Switchgear is suitable for use in switching stations for power generation and power distribution for:

- Transmission & Distribution
- Combined heat and power stations
- Main distribution substations
- Industry