



# MODIK ENCLOSURES

ENCLOSURES AT THE BEST VALUE



[www.modikenclosures.com](http://www.modikenclosures.com)

## INTRODUCTION

MODIK manufactures electrical enclosures since 2006 in our own production facility in Sri Lanka.

Our production plant is equipped with high tech machines, CNC machines & robots required to manufacture all kind of electrical, IT & Industrial enclosures.

We always use high quality raw materials & accessories in our production process. Our production plant is ISO 9001 certified and we carry out strict quality control at every stage of the production process. Our comprehensive quality control process enable us to deliver high quality products to our customers.

Our R&D team is well experienced in product design, and enables us to develop our products to meet current market requirements and to cater customer needs. Our products are designed and manufactured according to relevant international standards. Our highly skilled, well trained & motivated work force, backed by committed & quality conscious management, manufacture high quality products at minimum lead time at lowest possible cost.

### MODIK Range of Products

- Modular Panel System
- Wall Mounting Box Enclosures
- Distribution Boards
- Stainless Steel Enclosures
- Outdoor Enclosures
- Battery Cabinets
- Telephone DBs
- Aluminum Enclosures

MODIK panel system & enclosures come with PU-FIP (Polyurethane - Form in place) seamless gasket install using high precise robots to give required IP rating for doors & covers.

We can design & manufacture any type of electrical enclosures to comply different standards use in different countries. We manufacture enclosures to different specifications and standards & export to customers around the world.

MODIK offers high quality products at best possible price to give best value for customer investment.



## MODIK MODULAR PANELS

MODIK Modular Panel System is based on the modular concept of 200mm "Standard Module" for the construction of electrical panels. MODIK "Standard Module" can be extended into X, Y & Z or Width, Height & Depth directions in multiplication of "Standard Module". With this versatile modular concept, It is possible to construct electrical panels of any design, any configuration, or any size, using the range of standard modular parts.

The versatility of the modular system makes it easier to design & faster to assemble, electrical panels with end-less possibilities. MODIK Modular Panel System can be modified or extended, as per design changes during the panel assembly, during panel building or, even after commissioning; due to standard modular parts and it's "bolted" construction.

### STRUCTURE

MODIK provides flexible panel design solutions. Combination of panels of different width, height & depth can make infinite types of panels.

Space restrictions can overcome by making angled or back to back panel arrangements.

Structure is made of bended 2.0mm profiles, which can take heavy loads of switchboards.



### BUSBARS

Busbars can be arranged in the X, Y, Z planes. This allows the ultimate flexibility in designing busbar systems in the MODIK Modular Panel System.

MODIK busbars are run as twin bars in arrangement of "Twin-Parallel" Method. This system facilitate busbar tapping for out-going feeders without drilling holes on busbars.

Main busbars can place horizontally on the top, middle or bottom level. Vertical droppers can place to access from front or rear of the switchboard.



## MODIK MODULAR PANELS

### INSERTS & PARTITIONS

Different types of inserts such as fixed type compartments, mounting plates and many other switchgear mounting arrangements can be mixed within the same assembly or section.

Complete modularity of the MODIK modular panel system, allows complete optimization of the design with respect to the overall dimensions of the assembly, heat dissipation, service and maintenance.

An extensive range of standard parts offers complete freedom in designing panels to internal separation from Form 1 to Form 4B as per IEC 61439 1&2 standards.

MODIK range includes fixed compartment units, removable units, fully withdrawable units for design and build of panels of any configuration.



### DOORS & COVERS

Doors & Covers are made of 1.2, 1.5 or 2.0mm EG (Electro Galvanized) steel sheets.

Doors & covers are fitted with PU-FIP (Polyurethane - Form in place) seamless gasket to give required IP protection.

All parts of the MODIK Modular Panel System are made to highest quality levels and QC checks are done at every stage of the production process as per ISO 9001 quality management System.

All these make the MODIK is high quality modular panel system for your investment.



## MODIK WALL MOUNTING BOX ENCLOSURES

MODIK Wall Mounting Enclosures are made of 1.0, 1.2, 1.5 mm EG (Electro Galvanized) steel sheets to give additional protection against corrosion by Zinc layer.



- 01** Powder coated in fine textured epoxy polyester powder in an automated powder coating plant with IR curing. High quality powder coating gives durability and looks as new in many years to come.
- 02** Mounting plate is made of 1.5, 2.0mm Alu-Zinc (Zinc-Alume).
- 03** Mounting plate is fixed with copper studs. No bolts are penetrated outside. (For better strength and to maintain the IP rating)
- 04** Gland plate is fixed with copper studs and no screws are penetrated outside. This is to maintain the IP rating and for better quality. Gland opening is closed with gland plate and sealed with PU-FIP seamless gasket to maintain the IP rating.
- 05** Wall mounting box enclosures can fix on to the wall using four holes on the back plate or can use wall mounting brackets available as an optional item.
- 06** Door lock is quarter turn common key lock. Many other types of locks are available as optional items.
- 07** Stud welded copper earth studs on door and cabin for earthing.
- 08** Door is fitted with PU-FIP (Polyurethane - Form in place) seamless gasket to maintain IP rating.
- 09** Provisions to fix many auxiliary items like front plates, MCCB modules, DIN modules N&E link modules, blank plates etc.

Wall mounting enclosures with many other standard accessories give many solutions for distribution boards and other electrical assemblies.

Available in many different sizes to meet the requirement ranging from 200x200x150mm to 800x1600x300mm.

## MODIK DISTRIBUTION BOARDS

Many types of Distribution Boards are designed & manufactured to cater different electrical installations & requirements.

### DISTRIBUTION BOARDS - HEAVY DUTY

MODIK Heavy Duty Distribution Boards consist of box cabin, front door with lock, cable gland plates on top & bottom, Front plates, DIN rails, Neutral & Earth links.

Door with PU-FIP (Polyurethane - Form in place) seamless gasket gives required IP rating and can fix left or right side with 120 degree opening. Die-cast door hinges give better strength to the door, & lock with di-cast insert for better durability.

Heavy Duty Distribution Board range comes in 1 to 4 rows & 8,12,15 & 18 ways per row.

Available in surface mounting type and can flush mount using flush frame.

Heavy Duty Distribution Board range is user friendly design. All DIN modules are removable & come with separate front plates.



Mounting plate for MCCB is adjustable in depth to accommodate different brands of MCCBs.  
Glass doors are available on request.

### DISTRIBUTION BOARDS - LIGHT DUTY

MODIK Light Duty Distribution Boards consist of box cabin, door with press lock, front plate, removable cable gland plates on top & bottom, DIN rails, Neutral & Earth links.

Light Duty DB range comes in 1 to 4 rows & 8,12,15 & 18 ways per row.

Available in surface mounting type and flush mounting type.





**MODIK STAINLESS STEEL ENCLOSURES**

MODIK Stainless Steel Enclosures consist of cabin, front door with lock and mounting plate.

MODIK Stainless Steel Enclosure is a fully welded design, without any seam, to give high level protection and with hair line finish.

Door with PU-FIP (Polyurethane - Form in place) seamless gasket gives required IP rating and door can open 120 degrees.

All accessories including hinges, locks, and fasteners are stainless steel.

MODIK Stainless Steel Enclosures are available in stainless steel grades AISI 304 & AISI 316.



MODIK supply large range of Free Standing Stainless Steel Enclosures.

MODIK Free Standing Stainless Steel Enclosures come with internal modular grid in width, height & depth directions.

This modular grid enables to fix any modular part inside the panel to make panels of any configuration, with endless possibilities.



**OUTDOOR ENCLOSURES - WALL MOUNTING & FREE STANDING**

MODIK Outdoor Enclosure range is an ideal solution for outdoor electrical assembly applications.

MODIK Range of Outdoor Enclosures

- Wall Mounting Enclosures / Pole Mounting Enclosures
- Service Pillars
- Outdoor Feeder Pillars
- Outdoor Free Standing Enclosures

Outdoor Free Standing Enclosures are used for

- Outdoor Electrical panels
- Outdoor 19" Racks / Mobile base station 19" Racks
- Outdoor Battery Cabinets / Mobile base station battery cabinets

Outdoor Electrical Enclosures are used for solar installations, utility power supply feeder pillars, power distribution feeder pillars, street light panels, distribution units, fuse holder panels, garden light panels and many other outdoor electrical distribution requirements.



**Free Standing Enclosures**



**Service Pillars**



**Wall Mounting Enclosures**



**Pole Mounting Enclosures**

We supply full range of outdoor enclosures made of Electro Galvanized steel (EG) & powder coated in exterior powder. Other materials & finishes can supply on request. All Fasteners are stainless steel.

MODIK Outdoor Enclosures are designed and manufactured according to IEC 61969-1 & 2 & 3:2020 standards.

Wall Mounting Outdoor Enclosures consist of enclosure cabin, hinged door with double bit quarter turn steel lock, mounting plate, canopy & cable entry plate.

Free Standing Outdoor Enclosures consist of plinth, cabin, hinged door with lock, mounting plate & canopy. Door comes with Die-casted 3 position locking handle lock (UV resistant) with common key & provision for padlock. Lifting eyes are supplied as a standard part.

Ventilation Louver with vermin proof mesh, Meter window can supply on customer request.



## MODIK BATTERY CABINETS

MODIK Battery Cabinets are available in different types for different installation requirements.

- Slim Type
- Heavy Duty Type
- Rack Mountable Type
- Outdoor Type



**Slim Type**

**Heavy Duty Type**

**Rack Mountable Type**

**Outdoor Type**

Slim type battery cabinets are used for residential solar installations. It has provisions for inverter, batteries, switchgears and related accessories.

Slim type battery cabinets are ideal solution for residential solar installations for safety of peoples & building and also for aesthetic appearance.

Heavy duty type battery cabinets are used for commercial, BESS (Battery Energy Storage Solutions).

Rack mountable type battery cabinets are used for data centers, micro data centers and many other industrial requirements where rack mountable batteries are used.

Outdoor Battery Cabinets are used for outdoor battery storages as mobile base stations, mines, solar farms and many other outdoor battery storage solutions.



**Energy Wall Solution with Inverters & LiFePO<sub>4</sub> Batteries**



## MODIK TELEPHONE DBs

MODIK Telephone DBs are available in 100 Pairs to 2400 Pairs.

MODIK Telephone DBs are powder coated in white (RAL 9010) and fixed with back frame to fix connection & disconnection modules.



## MODIK CUSTOM MADE ENCLOSURES

Every industry needs custom designed bespoke enclosures.

Our well-experienced team of Research & Development (R&D) engineers can design special enclosures as per customer requirements.

Our state of the art manufacturing facility backed by well trained skilled workforce delivers high quality enclosures made to your design.

Customized products can manufacture in Electro Galvanized (EG), Stainless Steel (SS), Zincalume (Alu Zinc), Aluminum & HDG (Hot Dipped Galvanized) materials.



## MODIK ALUMINUM ENCLOSURES

MODIK range of Aluminium Enclosures are available in

- Wall mounting Box Enclosures
- Distribution Boards
- Terminal Boxes
- Free Standing Enclosures - Electrical Panels  
19" Racks  
Battery Cabinets



**Aluminium Free Standing Enclosures**



**Aluminium Wall Mounting Box Enclosures**



**Aluminium Distribution Boards**



**Aluminium Terminal Boxes**

MODIK Aluminium Enclosures are made of 2.0 mm Aluminium sheets.

Powder coated in fine textured Epoxy polyester powder. High quality powder coating gives durability and looks as new in many years to come.

Door lock is quarter turn common key lock. Many other types of locks are available as optional items.

Stud welded earth studs on door and cabin for earthing.

Doors are fitted with PU-FIP (Polyurethane - Form in place) seamless gasket to maintain IP rating.

Available in many different sizes to meet different requirements.

## TECHNICAL SPECIFICATIONS

### TECHNICAL SPECIFICATIONS OF MODIK MODULAR PANEL

#### Standards:

Designed and manufactured according to  
IEC 61439 -1&2, BSEN 61439 -1&2 standards  
IEC 60529:1989, BS EN 60529 standards

IEC – International Electrotechnical Commission  
BS EN - British Standards European Norm

#### Electrical Specifications:

Rated operational voltage (Ue)	415V AC
Rated Insulation voltage (Ui)	1000V AC
Rated frequency	50-60 Hz

#### General Specifications:

Installation:	Indoor
Mounting:	Free Standing
Degree of protection:	IP 55
Internal separation:	Form 1 - Form 4B Type 7

#### Material Specifications:

Please refer catalog to get material specifications of specific item

### TECHNICAL SPECIFICATIONS OF MODIK WALL MOUNTING & FREE STANDING ENCLOSURES

#### Standards:

Designed and manufactured according to  
IEC 61439 -3, BSEN 61439 -3, standards  
IEC 62208, BS EN 62208 standards  
IEC 61969, BS EN 61969 standards  
IEC 60529:1989, BS EN 60529, standards

IEC – International Electrotechnical Commission  
BS EN - British Standards European Norm

#### Electrical Specifications:

Rated operational voltage (Ue)	415V AC
Rated Insulation voltage (Ui)	1000V AC
Rated frequency	50-60 Hz

#### General Specifications:

##### Wall Mounting Box Enclosures

Installation:	Indoor
Mounting:	Wall Mounting / Pole Mounting
Degree of protection:	IP 65
Resistance to corrosion:	Severity Test A
Mechanical impact:	IK 08

##### Distribution Boards - Light Duty

Installation:	Indoor
Mounting:	Wall Mounting
Resistance to corrosion:	Severity Test A

##### Distribution Boards - Heavy Duty

Installation:	Indoor
Mounting:	Wall Mounting / Pole Mounting
Degree of protection:	IP 65
Resistance to corrosion:	Severity Test A
Mechanical impact:	IK 08

##### Distribution Boards – PAN Busbar

Installation:	Indoor
Mounting:	Wall Mounting
Degree of protection:	IP 43 / IP 65
Resistance to corrosion:	Severity Test A
Mechanical impact:	IK 08

##### Stainless Steel Enclosures

Installation:	Indoor / Outdoor
Mounting:	Wall Mounting / Pole Mounting
Degree of protection:	IP 66

##### Outdoor Enclosures

Installation:	Outdoor
Mounting:	Wall Mounting/ Pole Mounting, Free Standing
Degree of protection:	IP54
Resistance to corrosion:	Severity Test B
Mechanical impact:	IK 10

## TECHNICAL SPECIFICATIONS

### Telephone DBs

Installation:	Indoor
Mounting:	Wall Mounting
Degree of protection:	IP43
Resistance to corrosion:	Severity Test A
Mechanical impact:	IK 08

### Aluminium Enclosures

Installation:	Indoor/ Outdoor
Mounting:	Wall Mounting/ Pole Mounting
Degree of protection:	IP54
Mechanical impact	IK 07

### Material Specifications:

Please refer catalog to get material specifications of specific item

## TECHNICAL SPECIFICATIONS OF MODIK BATTERY CABINET

### Standards:

Designed and manufactured according to  
IEC 62208, BS EN 62208 standards  
IEC 60529:1989, BS EN 60529, standards  
IEC 61969, BS EN 61969 standards

IEC – International Electrotechnical Commission  
BS EN – British Standards European Norm

### Electrical Specifications:

Rated operational voltage (Ue)	415V AC
Rated Insulation voltage (Ui)	1000V AC
Rated frequency	50-60 Hz

### General Specifications:

#### Indoor

Installation:	Indoor
Mounting:	Wall Mounting / Free Standing
Degree of protection:	IP 43
Resistance to corrosion:	Severity Test A
Mechanical impact:	IK 08

#### Outdoor

Installation:	Outdoor
Mounting:	Free Standing
Degree of protection:	IP54
Resistance to corrosion:	Severity Test B
Mechanical impact	IK 10

Please refer catalog to get material specifications of specific item  
Colors:

 RAL 7032	 RAL 7035	 RAL 9005	 RAL 9010
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Technical Specifications of other types of Wall Mounting Enclosures on request.

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### Material Specifications

Please refer catalog to get material specifications of specific item

\* Other thicknesses & colors on request.

### Paint Specifications:

Type:	Powder coated
Powder:	Epoxy Polyester powder
Powder coating thickness:	60-80 µm
Gloss Level:	Semi-Gloss 50-70%
Texture:	Fine texture
Curing Temperature:	180 °C
Painting system:	Conveyorised automated powder coating process
Pre-treatment process:	1: Degreasing / Derusting / Cleaning 2: Water cleansing 3: Phosphating
Pre-heating:	IR (Infra Red) heaters
Powder coating:	Tribo static powder coating system
Curing:	IR (Infra Red) heaters

NOTES

Lined area for notes.



## NOTES.

## OUR PRODUCTS RANGE

- Modular Panels
- Wall Mounting Box Enclosures
- Distribution Boards
- Stainless Steel Enclosures
- Outdoor Enclosures
- Battery Cabinets
- Telephone DB
- Aluminium Enclosures



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