



## *Industrial Engineering & Electrical Distribution Enclosures*



**AUTOMAX  
AUTOTEK  
CONSOLETEK  
ELECTROMOD**

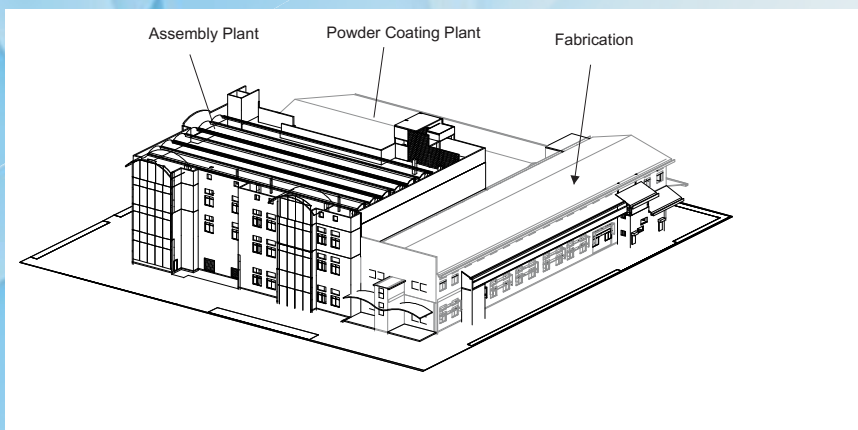


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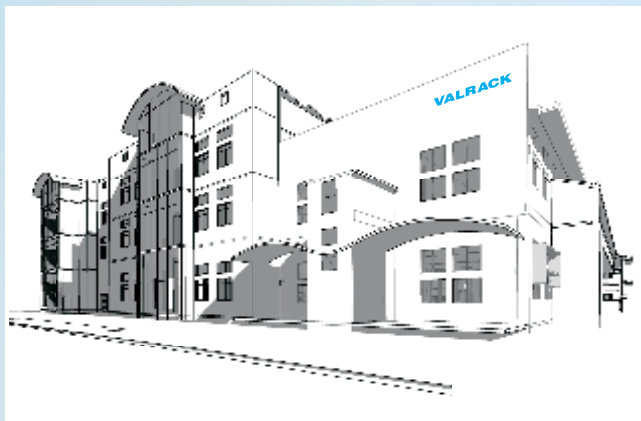
IEC-402 Rev.0

## About Us



*Our manufacturing facility in Navi Mumbai has been voted as a model factory by our international buyers as they found it beyond some of the manufacturing facilities they vouched for in Europe and USA.*

*125,000 sq. feet ( One hundred and twenty five thousand square feet ) of constructed carpet area separated into 3 individual buildings for Fabrication, Powder coating and Assembly.*



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## Enclosure Solutions par excellence!

The sheet metal business is analogous to our universe-Vast & Unexplored! It requires vision, determination, innovation, aggression & perfection to understand the core secret. We, at Valrack, having 18 years of focused efforts have imbibed these ideals and successfully implanted them in our value system, making us the leaders in this niche business. To supplement this, are our wide array of products that roll out of our state-of-the-art manufacturing facility to fulfil current market expectations, hence labelling trustworthiness with a blend of excellence.



## Technological Innovation

After more than significant years of experience, Valrack is still investing heavily to be successful all over the world. Our commitment is to get close to our customers and to offer exceptional customer service with an advanced product range.

**Valrack**, with the introduction of **AutoMax Floor Standing Enclosures, AutoTek Wall mount & Terminal Box Series and Innovative Console solutions**, is committed to be a major force in the ever changing Global market place for enclosures & Racks.

This is a move in a new direction revolutionizing the present Enclosure offerings.

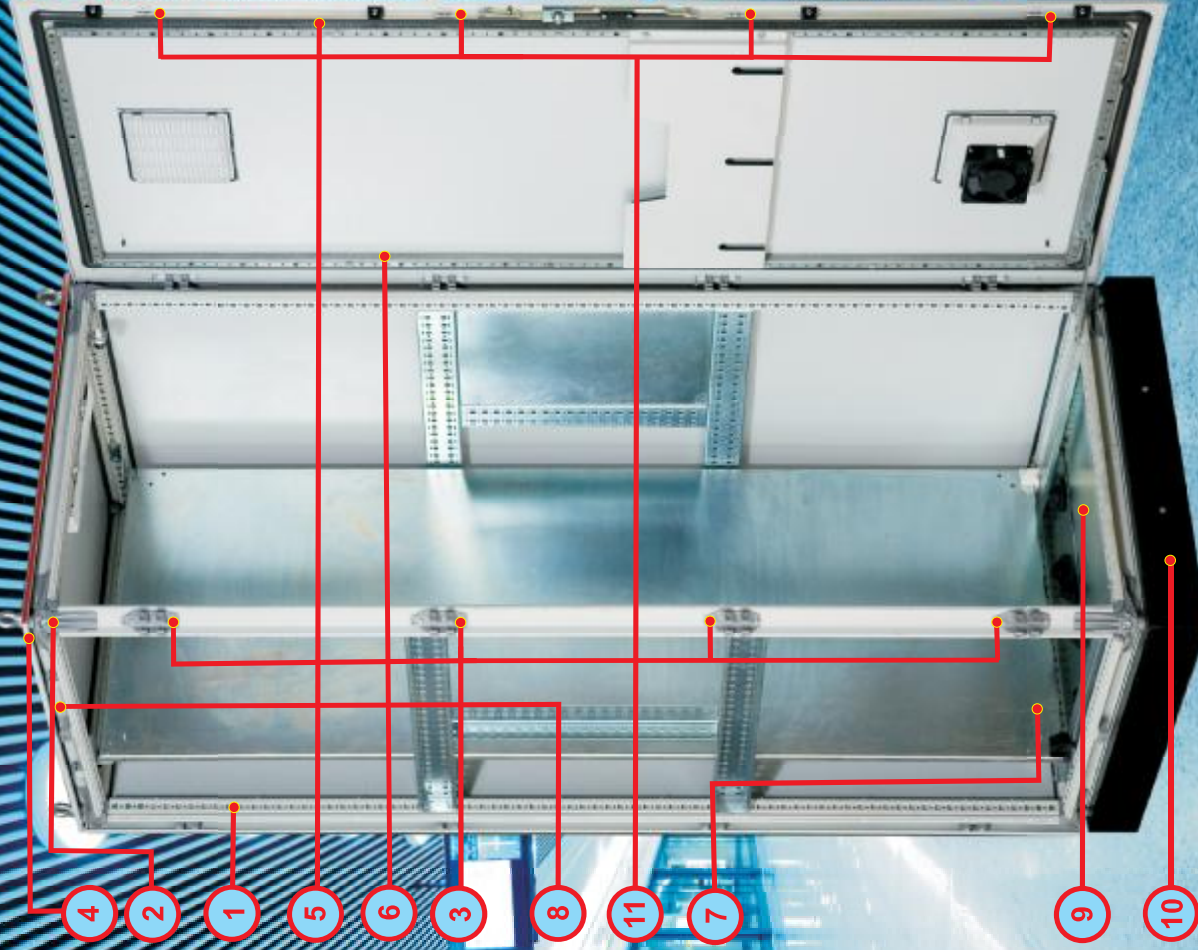
### Valrack Automation Product Spectrum

- AutoMax Floor Mount Enclosures
- AutoTek Wall Mount Junction Boxes both Single & Double Door
- AutoTek Terminal Boxes
- Valrack Console Range









## INNOVATION TO NEXT LEVEL

Valrack's philosophy of "Tomorrow's technology now meets today's requirement" has set new Industry & Quality standards. Our continued efforts in offering the best suited Equipment Protection Solutions with a focus on customer requirements & market expectations, offers maximum satisfaction powered by maximum Innovation.

Auto Max Enclosure Solutions - Fuelled by Innovation & Powered by your needs, is not just a Modular Cabinet as in usage today across the Globe but a step forward with a total modularity on a flat pack version, with numerous unique features which differentiate it from other conventional offerings.

1

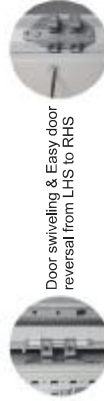
- 28 fold roll formed profile in profile structure
- 25mm pitch pattern holes- M6 Cage nuts / extended holes

2

- \*Uni-bolt, frame re-inforcement System
- Heavy duty die-cast corner blocks
- 75 mm press-fit inside the profile for rigid skeleton form
- \*Uni-bolt = Inner tripod + outer tripod casting at all 8 corners.

3

Door swiveling & Easy door reversal from LHS to RHS



Frame coupling



- Extended top cover with Eye bolts

5

- Robotic Polyurethane gasket



6

- Door stiffener with 4.2 dia holes at 25 mm pitch pattern



7

- Depth adjustable rigid mounting plate arrangement



8

- Side panel locator

- Adjustable 3part gland plate

Side hinged door in place of side cover & Facilitates 4 point lock arresting.



Plinth with cable entry provision

- 4 point locking system with swing handle

10

11

- 4 point locking system with swing handle





## Floor Standing Enclosure Solutions

### A REVOLUTIONARY PRODUCT TAKING THE PRODUCT STANDARD TO A NEW HEIGHT!

Valrack's experiences combined with investment in R&D, determination to offer the best and our ability to think out of the box has given birth to a product totally different from conventional offering.

**AutoMax** is not just a Modular Cabinet in usage today across the Globe but a step forward with total modularity on a flat pack version.



19" Swing Frame



Toughened Glass Door



AutoMax Double Door

Floor standing Enclosure has several fists to its credit, and is designed as a complete solution for the growing demand for the Distribution and Automation business. The economical design has been evolved to meet the growing demand by the technologically advancing Electrical & Electronics markets.

The well engineered roll formed profile structure has 28-folds, which is the highest in offering. The frame joining it, is through 'Uni-bolt' re-inforcement system of heavy duty die-cast corner blocks, tightened with bolts for a very high load bearing capacity, total modularity standards and safety. The Multipurpose die-cast hinges are also unique and multi-functional. Four hinges fixed on each side supplements the strong frame structure, gives stability to the door, rear cover and side panels.

Robotic 'foam-in-place' gasket offers highest IP protection. The top cover is extended for logo display and the door is reinforced with box stiffeners for rigidity. The locking is at 4 points with swing handle lock with key, and cable entry is through over lapping gland plates.

This new generations Floor mount Enclosures with frame range of over 103 different size & combinations, offers a complete solutions for several applications of distribution and automation business. With all these features, AutoMax is well suited for optimum space utilization, quick assembly time, very high load bearing capacity, stability and universal applications.

## Superior to other Modular Enclosures for variety of reasons...

- Totally Modular in construction with flat pack version
- Roll formed profile frame with 28 bends and closed construction for heavy duty applications
- Uni-bolt, Die-cast Corner blocks with impact resistance bolts for highest rigidity
- 4 point locking system with Swing handle with key option
- Multipurpose Die-cast hinges, four nos. on each sides for very high door stability
- Load bearing capacity of more than 1.5 tons of static load
- Over 103 different size offerings
- Robotized Foam-in-place gasket system for higher dust and water ingress protection
- High utility space for component mounting
- Stable suits on coupling
- Extended Top cover for Logo Display
- Side panel locator for Stable Side panel mounting for operator safety
- Adjustable 3 part gland plate for cable entry
- "C" Type Base frame of height 100mm/200mm with cover plate for cable entry
- Top plate fitted with M12 Eye bolts for lifting
- Side mounting plates & partial mounting plate on offering
- Front Glass door, Dead front panels and Swing frames on offering
- Wide range of accessories to suit varied mounting options & applications
- EMI/RFI options available on demand
- Quick assembly time & optimum space utilization
- Universal adaptability for varied applications



## About AutoMax

Other different combination sizes on offering, for the Enclosure sizes mentioned are:

010 - Frame with No Mounting Plate with Front hinged door and Rear Bolted cover  
 011 - Frame with No Mounting Plate with Front hinged door and Rear Hinged door  
 021 - Frame with no mounting plate with dead front and Rear hinged door  
 110 - Frame with 1 Mounting Plate with front hinged door and rear bolted cover  
 111 - Frame with 1 Mounting plate with Front Hinged door and Rear Hinged door  
 121 - Frame with 1 mounting plate with dead front and Rear hinged door  
 211 - Frame with 2 numbers of mounting plates with Front hinged door and Rear hinged door

*Note: The above 3 digits represents*

1<sup>st</sup> Digit = Mounting Plate(MP) - 1 for 1 MP, 2 for 2 MP's & 0 for No MP  
 2<sup>nd</sup> Digit = Front Door - 1 for hinged, 0 for bolted Cover & 2 for Dead Front  
 3<sup>rd</sup> Digit = Rear Access - 1 for hinged and 0 for bolted cover and

*Note: If these last set of 3 digits are followed by GO it indicates full height Front glass door*

### Standard Supply Scope

Includes Roll-formed Profile of 28-bends with 8 nos of heavy duty die-cast corner blocks inserted into the frame & bolted with heavy duty fastener on top & bottom, Extended top plate with 4 eye bolts, bottom removable gland plate for cable entry provision, front hinged door mounted on 4 multipurpose die-cast hinges both on front & back with tube stiffeners for the widths more than 400mm, rear bolted panel, 4 point locking systems with swing handle and key, 1 full height depth adjustable mounting plate with 25mm pitch pattern, 2 depth members for rigid frame support, foam-in-place gasketing on all the flat parts for higher IP protection

### Standards & Certifications

A Valrack enclosure meets all the required current global standards and specifications:

#### IP Protection

- AutoMax Enclosures with Single & Double Doors - Complies with IP 55 to EN 60529/10.91, NEMA 12, DIN 41.844 part 1 - 3 - Measurements for sub-divisions of enclosures
- AutoMax Enclosures with Glass door- Complies with IP 54 to EN 60529/10.91, DIN 41.844 part 1 - 3 - Measurements for sub-divisions of enclosures
- AutoMax Enclosures with Louvers & Filters- Complies with IP 54 to EN 60529/10, DIN 41.844 part 1 - 3 - Measurements for sub-divisions of enclosures
- AutoMax Enclosures with rain canopy - Complies with IP 54 to EN 60529/10.91, DIN 41.844 part 1 - 3 - Measurements for sub-divisions of enclosures
- Earthing: Valrack enclosures are provided with earthing provision on Doors and Side panels in accordance with EN 60.204 part 1
- AutoMax Enclosures are certified for Short Circuit Current Test of 50KA per second

#### Powder Coating Specification

- CRCA Roll formed Frames: 20 +/- 5 microns- Dip coated & Aluminium frames to 60-80 Microns
- Inner to inner; 80-100 microns for textured finish & 60-80 microns for matt finish.

## AutoMax Enclosure Features:

- 28 fold roll formed profile structure for rigidity with 25mm pitch pattern holes for flexible mounting
- Uni-bolt frame Reinforcement system with heavy duty die-cast corner block for high load bearing capability.
- Multi-purpose die-cast hinges at four places on each side for rigid housing and baying
- 4 point Locking system with swing handle with key inserts.
- Extended top cover for display of logo.
- Robotic foam-in-place gasket for higher IP.
- Side panel locator safety.
- Load bearing capacity of more than 1.5 tone of static load.
- Tested for 50KA short circuit current and IP 55.
- Side hinged door in place of side cover on need without additional frame.
- Provision of incorporating side mounting plate and partial mounting plates.
- Flat-packed version to save transportation and storage cost.
- Square type profiles facilitates higher utility space.
- Stable suits on coupling.
- Quick assembly time & optimum space utilization.
- Universal adaptability for varied applications.



## Key Highlights



### 28 Fold Roll formed Profile

- 28 Fold roll formed profile Ergonomically designed to form frame structure
- 25mm pitch pattern holes -M6 cage nuts for high utilisation of space
- Closed frame structure for high load carrying capacity and Dip coated finish for high corrosion resistance property



### Multi-purpose die-cast Hinge

- The die-cast hinges serves Multipurpose tasks
- Each side has 4 nos of hinges for higher door stability
- The hinge accommodates locking rod insertion
- Side panels are bolted through the door hinges
- Coupling is through the door hinges for high rigidity to form suits
- The captive hinge pins provides a quick installation and removal of doors



### Uni-Bolt Frame Reinforcement

- Uni-bolt Frame Reinforcement of die-cast heavy duty orthogonal corner blocks are press fit into the closed profile upto 75mm.
- High impact resistance bolts are used to join corner blocks strengthening a profile of a rigid structure.
- The corner block technology provides resistance to shocks and impacts by various loading and transportation conditions, and protects the frame from diagonal shifting.



### Mounting Plate

- The mounting plate has very high mounting surface
- The bottom is supported on Nylon bushes and top side by Z bracket coupled to frame
- The bends on all the sides provides stable mounting surface
- The Mounting plates are available on request
- Partial Mounting plates are available on request
- Partial mounting plates are housed using Depth and width members based on the position of mounting
- Side mounting plates available on request



### Mounting Plate Infill

- The mounting plate infill is provided between 2 adjacent mounting plates
- This facilitates maximum mounting surface on panel coupling



### Punched Rails for Height/Width/Depth Mounting

- The Punched rail of 25(d) x 75 mm(w) with uniform punches all around
- 25 rows of holes at 25mm pitch pattern for highest flexibility
- Withstands very high static and dynamic load
- Surface protection by powder coating or zinc passivation
- Overall dimension of 47.5mm on each side provides maximum Inner mounting surface



### Door Stiffeners

- The square Tube stiffeners with corner pieces provides additional enforcement to the doors
- The holes on uniform distance provided additional mounting surface and easy cabling options
- The stiffeners are alu zinc coated for high corrosion resistance and conductivity



### Panel Baying Kit

- The baying of cabinets is quick and hassle free
- The extended portion of die-cast hinge is provided for quick fix baying
- Additional L Bracket on top and bottom portion makes the baying highly rigid



### Foam-In-Place Gasket System

- The Robotized Foam - In- place gasket system forms the integral part of all the flat part mating points
- The adhesion of the gasket to the steel is permanent- full proof dust & water tight for higher IP Protection
- The porosity in the gasket helps in retaining the original shape & size once relieved of tension, results in longer

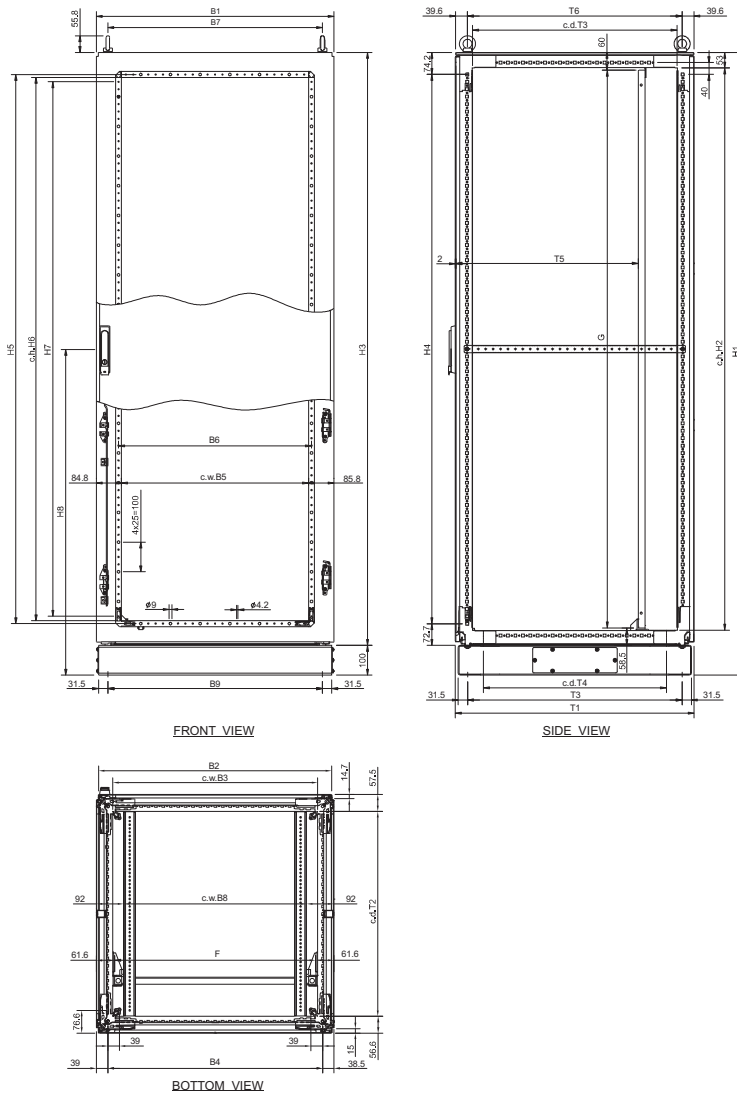


### Bottom Gland Plates

- Slideable gland plates facilitates cable entry into the rack
- The number of gland plates are 3 or 4 nos depending on the panel depth
- Cover plate option on top plate for cable entry provision on request
- Gland plates are held in position by clip nuts for stability



## General Layout Drawing for AutoMax - Single Door Enclosure



## AutoMax Single Door

Sr. no.	Article nos.	Width																Depth						Height								Mtg. Plate		
		B1	B2	B3	B4	B5	B6	B7	B8	B9	T1	T2	T3	T4	T5	T6	H1	H2	H3	H4	H5	H6	H7	H8	F	G								
1	AM 168040	600	585	688	722	629.5	646.5	522	416	522	402	288	322	216	214	322	1700	1492	1600	1450	1449	1429	1400	996.5	677	1478.5								
2	AM 168040	600	585	688	722	629.5	646.5	522	416	522	402	288	322	216	214	322	1700	1492	1600	1450	1449	1429	1400	996.5	677	1478.5								
3	AM 168050	600	585	688	722	629.5	646.5	522	416	522	402	388	422	316	314	422	1700	1492	1600	1450	1449	1429	1400	996.5	677	1478.5								
4	AM 168050	600	585	688	722	629.5	646.5	522	416	522	402	388	422	316	314	422	1700	1492	1600	1450	1449	1429	1400	996.5	677	1478.5								
5	AM 168060	600	585	688	722	629.5	646.5	522	416	522	402	488	522	416	414	522	1700	1492	1600	1450	1449	1429	1400	996.5	677	1478.5								
6	AM 168060	600	585	688	722	629.5	646.5	522	416	522	402	488	522	416	414	522	1700	1492	1600	1450	1449	1429	1400	996.5	677	1478.5								
7	AM 168080	600	585	688	722	629.5	646.5	522	416	522	402	688	722	616	614	722	1700	1492	1600	1450	1449	1429	1400	996.5	677	1478.5								
8	AM 168080	600	585	688	722	629.5	646.5	522	416	522	402	688	722	616	614	722	1700	1492	1600	1450	1449	1429	1400	996.5	677	1478.5								
9	AM 168070	600	585	688	722	629.5	646.5	522	416	522	1002	888	922	816	814	922	1700	1492	1600	1450	1449	1429	1400	996.5	677	1478.5								
10	AM 168070	600	585	688	722	629.5	646.5	522	416	522	1002	888	922	816	814	922	1700	1492	1600	1450	1449	1429	1400	996.5	677	1478.5								
11	AM 168070	600	585	688	722	629.5	646.5	522	416	522	1002	888	922	816	814	922	1700	1492	1600	1450	1449	1429	1400	996.5	677	1478.5								
12	AM 168040	600	585	688	722	629.5	646.5	522	416	522	402	1088	1122	1016	1014	1122	1700	1492	1600	1450	1449	1429	1400	996.5	677	1478.5								
13	AM 168040	600	585	688	722	629.5	646.5	522	416	522	402	1088	1122	1016	1014	1122	1700	1492	1600	1450	1449	1429	1400	996.5	677	1478.5								
14	AM 180040	800	785	688	722	629.5	646.5	722	616	722	402	288	322	216	214	322	1900	1692	1800	1650	1649	1629	1600	996.5	677	1678.5								
15	AM 180050	800	585	688	722	629.5	646.5	522	416	522	402	388	422	316	314	422	1900	1692	1800	1650	1649	1629	1600	996.5	677	1678.5								
16	AM 180050	800	585	688	722	629.5	646.5	522	416	522	402	388	422	316	314	422	1900	1692	1800	1650	1649	1629	1600	996.5	677	1678.5								
17	AM 180060	600	585	688	722	629.5	646.5	522	416	522	402	488	522	416	414	522	1900	1692	1800	1650	1649	1629	1600	996.5	677	1678.5								
18	AM 180060	600	585	688	722	629.5	646.5	522	416	522	402	488	522	416	414	522	1900	1692	1800	1650	1649	1629	1600	996.5	677	1678.5								
19	AM 180080	600	585	688	722	629.5	646.5	522	416	522	402	688	722	616	614	722	1900	1692	1800	1650	1649	1629	1600	996.5	677	1678.5								
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21	AM 180070	600	585	688	722	629.5	646.5	522	416	522	1002	888	922	816	814	922	1900	1692	1800	1650	1649	1629	1600	996.5	677	1678.5								
22	AM 180070	600	585	688	722	629.5	646.5	522	416	522	1002	888	922	816	814	922	1900	1692	1800	1650	1649	1629	1600	996.5	677	1678.5								
23	AM 180070	600	585	688	722	629.5	646.5	522	416	522	1002	1088	1122	1016	1014	1122	1900	1692	1800	1650	1649	1629	1600	996.5	677	1678.5								
24	AM 206040	600	785	688	722	629.5	646.5	522	416	522	402	288	322	216	214	322	2100	1892	2000	1850	1849	1829	1800	1066.5	677	1878.5								
25	AM 206040	600	785	688	722	629.5	646.5	522	416	522	402	288	322	216	214	322	2100	1892	2000	1850	1849	1829	1800	1066.5	677	1878.5								
26	AM 206040	800	787	688	722	629.5	646.5	722	616	722	402	388	422	316	314	422	2100	1892	2000	1850	1849	1829	1800	1066.5	677	1878.5								
27	AM 206040	800	785	688	722	629.5	646.5	722	616	722	402	388	422	316	314	422	2100	1892	2000	1850	1849	1829	1800	1066.5	677	1878.5								
28	AM 206060	600	595	488	522	429.5	446.5	322	416	522	402	488	522	416	414	522	2100	1892	2000	1850	1849	1829	1800	1066.5	677	1878.5								
29	AM 206060	600	585	688	722	629.5	646.5	522	416	722	802	488	522	416	414	522	2100	1892	2000	1850	1849	1829	1800	1066.5	677	1878.5								
30	AM 206080	600	585	688	722	629.5	646.5	522	416	722	802	688	722	616	614	722	2100	1892	2000	1850	1849	1829	1800	1066.5	677	1878.5								
31	AM 206080	600	585	688	722	629.5	646.5	522	416	722	802	688	722	616	614	722	2100	1892	2000	1850	1849	1829	1800	1066.5	677	1878.5								
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33	AM 206070	600	585	688	722	629.5	646.5	522	416	722	1002	888	922	816	814	922	2100	1892	2000	1850	1849	1829	1800	1066.5	677	1878.5								
34	AM 206070	600	585	688	722	629.5	646.5	522	416	722	1002	888	922	816	814	922	2100	1892	2000	1850	1849	1829	1800	1066.5	677	1878.5								
35	AM 206070	800	785	688	722	629.5	646.5	722	616	722	1002	1088	1122	1016	1014	1122	2100	1892	2000	1850	1849	1829	1800	1066.5	677	1878.5								
36	AM 206070	800	785	688	722	629.5	646.5	522	416	722	1002	1088	1122	1016	1014	1122	2300	2092	2200	2050	2049	2029	2000	1196.5	677	2078.5								
37	AM 226060	600	585	688	722	629.5	646.5	722	616	722	802	488	522	416	414	522	2300	2092	2200	2050	2049	2029	2000	1196.5	677	2078.5								
38	AM 226060	600	585	688	722	629.5	646.5	522	416	722	802	688	722	616	614	722	2300	2092	2200	2050	2049	2029	2000	1196.5	677	2078.5								
39	AM 226080	600	785	688	722	629.5	646.5	722	616	722	802	688	722	616	614	722	2300	2092	2200	2050	2049	2029	2000	1196.5	677	2078.5								



Sr. nos.	Article nos.	Width										Depth						Height					Mig. Plate			
		B1	B2	B3	B4	B5	B6	B7	B8	B9	T1	T2	T3	T4	T5	T6	H1	H2	H3	H4	H5	H6	H7	H8	G	F
1	AM 161040	1100	985	888	922	330	350	922	388	922	402	288	322	216	214	322	1700	1600	1492	1450	1450	1430	1400	896.5	877	1478.5
2	AM 161240	1200	1185	1088	1122	430	450	1122	488	1122	402	288	322	216	214	322	1700	1600	1492	1450	1450	1430	1400	896.5	877	1478.5
3	AM 161050	1100	985	888	922	330	350	922	388	922	902	688	722	616	614	722	1700	1600	1492	1450	1450	1430	1400	896.5	877	1478.5
4	AM 161250	1200	1185	1088	1122	430	450	1122	488	1122	502	388	422	316	314	422	1700	1600	1492	1450	1450	1430	1400	896.5	1077	1478.5
5	AM 161060	1100	985	888	922	330	350	922	388	922	902	688	722	616	614	722	1700	1600	1492	1450	1450	1430	1400	896.5	877	1478.5
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9	AM 161260	1100	1185	1088	1122	430	450	1122	488	1122	902	688	722	616	614	722	1700	1600	1492	1450	1450	1430	1400	896.5	1077	1478.5
10	AM 181040	1100	985	888	922	330	350	922	388	922	402	288	322	216	214	322	1900	1800	1692	1650	1650	1630	1600	996.5	877	1678.5
11	AM 181240	1200	1185	1088	1122	430	450	1122	488	1122	402	288	322	216	214	322	1900	1800	1692	1650	1650	1630	1600	996.5	1077	1678.5
12	AM 181050	1100	985	888	922	330	350	922	388	922	902	688	722	616	614	722	1900	1800	1692	1650	1650	1630	1600	996.5	877	1678.5
13	AM 181250	1100	1185	1088	1122	430	450	1122	488	1122	502	388	422	316	314	422	1900	1800	1692	1650	1650	1630	1600	996.5	1077	1678.5
14	AM 181060	1100	985	888	922	330	350	922	388	922	902	688	722	616	614	722	1900	1800	1692	1650	1650	1630	1600	996.5	877	1678.5
15	AM 181280	1100	1185	1088	1122	430	450	1122	488	1122	902	688	722	616	614	722	1900	1800	1692	1650	1650	1630	1600	996.5	1077	1678.5
16	AM 181010	1100	985	888	922	330	350	922	388	922	902	688	722	616	614	722	1900	1800	1692	1650	1650	1630	1600	996.5	877	1678.5
17	AM 181260	1100	1185	1088	1122	430	450	1122	488	1122	902	688	722	616	614	722	1900	1800	1692	1650	1650	1630	1600	996.5	1077	1678.5
18	AM 181010	1000	965	868	922	330	350	922	388	922	1002	888	922	816	814	922	1900	1800	1692	1650	1650	1630	1600	996.5	877	1678.5
19	AM 181240	1100	985	888	922	330	350	922	388	922	402	288	322	216	214	322	2100	2000	1892	1850	1850	1830	1800	1096.5	877	1878.5
20	AM 181050	1100	985	888	922	330	350	922	388	922	902	688	722	616	614	722	2100	2000	1892	1850	1850	1830	1800	1096.5	877	1878.5
21	AM 181250	1100	1185	1088	1122	430	450	1122	488	1122	502	388	422	316	314	422	2100	2000	1892	1850	1850	1830	1800	1096.5	1077	1878.5
22	AM 181060	1100	985	888	922	330	350	922	388	922	902	688	722	616	614	722	2100	2000	1892	1850	1850	1830	1800	1096.5	1077	1878.5
23	AM 181280	1100	1185	1088	1122	430	450	1122	488	1122	902	688	722	616	614	722	2100	2000	1892	1850	1850	1830	1800	1096.5	1077	1878.5
24	AM 181010	1000	965	868	922	330	350	922	388	922	1002	888	922	816	814	922	2100	2000	1892	1850	1850	1830	1800	1096.5	877	1878.5
25	AM 181260	1100	1185	1088	1122	430	450	1122	488	1122	902	688	722	616	614	722	2100	2000	1892	1850	1850	1830	1800	1096.5	1077	1878.5
26	AM 181010	1200	1185	1088	1122	430	450	1122	488	1122	902	688	722	616	614	722	2100	2000	1892	1850	1850	1830	1800	1096.5	877	1878.5
27	AM 181240	1100	985	888	922	330	350	922	388	922	1002	888	922	816	814	922	2100	2000	1892	1850	1850	1830	1800	1096.5	877	1878.5
28	AM 181050	1100	985	888	922	330	350	922	388	922	902	688	722	616	614	722	2100	2000	1892	1850	1850	1830	1800	1096.5	877	1878.5
29	AM 181260	1100	1185	1088	1122	430	450	1122	488	1122	902	688	722	616	614	722	2100	2000	1892	1850	1850	1830	1800	1096.5	1077	1878.5
30	AM 181060	1100	985	888	922	330	350	922	388	922	902	688	722	616	614	722	2300	2200	2092	2050	2050	2030	2000	1196.5	877	2078.5
	AM 221600	1100	985	888	922	330	350	922	388	922	902	688	722	616	614	722	2300	2200	2092	2050	2050	2030	2000	1196.5	877	2078.5

## AutoMax Sizes

Sr. nos.	Sizes H*W*D	Description	Article nos.
1	2200x600x600	Std configuration with Front door, rear panel and 1 M Plate	AM 226060 110
2	2200x800x600	Std configuration with Front door, rear panel and 1 M Plate	AM 228060 110
3	2200x1000x600	Std configuration with Front door, rear panel and 1 M Plate	AM 221060 110
4	2200x1200x600	Std configuration with Front door, rear panel and 1 M Plate	AM 221260 110
5	2200x600x800	Std configuration with Front door, rear panel and 1 M Plate	AM 226080 110
6	2200x800x800	Std configuration with Front door, rear panel and 1 M Plate	AM 228080 110
7	2200x1000x800	Std configuration with Front door, rear panel and 1 M Plate	AM 221080 110
8	2200x1200x800	Std configuration with Front door, rear panel and 1 M Plate	AM 221280 110
9	2000x 600x400	Std configuration with Front door, rear panel and 1 M Plate	AM 206040 110
10	2000x 600x500	Std configuration with Front door, rear panel and 1 M Plate	AM 206050 110
11	2000x 600x600	Std configuration with Front door, rear panel and 1 M Plate	AM 206060 110
12	2000x600x800	Std configuration with Front door, rear panel and 1 M Plate	AM 206080 110
13	2000x600x1000	Std configuration with Front door, rear panel and 1 M Plate	AM 206010 110
14	2000x600x1200	Std configuration with Front door, rear panel and 1 M Plate	AM 206012 110
15	2000x 800x400	Std configuration with Front door, rear panel and 1 M Plate	AM 208040 110
16	2000x 800x500	Std configuration with Front door, rear panel and 1 M Plate	AM 208050 110
17	2000x 800x600	Std configuration with Front door, rear panel and 1 M Plate	AM 208060 110
18	2000x800x800	Std configuration with Front door, rear panel and 1 M Plate	AM 208080 110
19	2000x800x1000	Std configuration with Front door, rear panel and 1 M Plate	AM 208010 110
20	2000x800x1200	Std configuration with Front door, rear panel and 1 M Plate	AM 208012 110
21	2000x1000x400	Std configuration with Front door, rear panel and 1 M Plate	AM 201040 110
22	2000x1000x500	Std configuration with Front door, rear panel and 1 M Plate	AM 201050 110
23	2000x1000x600	Std configuration with Front door, rear panel and 1 M Plate	AM 201060 110
24	2000x1000x800	Std configuration with Front door, rear panel and 1 M Plate	AM 201080 110
25	2000x1000x1000	Std configuration with Front door, rear panel and 1 M Plate	AM 201010 110
26	2000x1200x400	Std configuration with Front door, rear panel and 1 M Plate	AM 201240 110
27	2000x1200x500	Std configuration with Front door, rear panel and 1 M Plate	AM 201250 110
28	2000x1200x600	Std configuration with Front door, rear panel and 1 M Plate	AM 201260 110
29	2000x1200x800	Std configuration with Front door, rear panel and 1 M Plate	AM 201280 110
30	1800x 600x400	Std configuration with Front door, rear panel and 1 M Plate	AM 186040 110
31	1800x 600x500	Std configuration with Front door, rear panel and 1 M Plate	AM 186050 110
32	1800x 600x600	Std configuration with Front door, rear panel and 1 M Plate	AM 186060 110
33	1800x600x800	Std configuration with Front door, rear panel and 1 M Plate	AM 186080 110
34	1800x600x1000	Std configuration with Front door, rear panel and 1 M Plate	AM 186010 110
35	1800x600x1200	Std configuration with Front door, rear panel and 1 M Plate	AM 186012 110

## Standard Supply Scope

Includes Roll-formed Profile of 28-bends with 8 nos of heavy duty die-cast corner blocks inserted into the frame & bolted with heavy duty fastener on top & bottom, Extended top plate with 4 eye bolts, bottom removable gland plate for cable entry provision, front hinged door mounted on 4 multipurpose die-cast hinges both on front & back with tube stiffeners for the widths more than 400mm, rear bolted panel, 4 point locking systems with swing handle and key, 1 full height depth adjustable mounting plate with 25mm pitch pattern, 2 depth members for rigid frame support, foam-in-place gasketing on all the flat parts for higher IP protection.

Sr. nos.	Sizes H*W*D	Description	Article nos.
36	1800x800x400	Std configuration with Front door, rear panel and 1 M Plate	AM 188040 110
37	1800x800x500	Std configuration with Front door, rear panel and 1 M Plate	AM 188050 110
38	1800x800x600	Std configuration with Front door, rear panel and 1 M Plate	AM 188060 110
39	1800x800x800	Std configuration with Front door, rear panel and 1 M Plate	AM 188080 110
40	1800x800x1000	Std configuration with Front door, rear panel and 1 M Plate	AM 188010 110
41	1800x800x1200	Std configuration with Front door, rear panel and 1 M Plate	AM 188012 110
42	1800x1000x400	Std configuration with Front door, rear panel and 1 M Plate	AM 181040 110
43	1800x1000x500	Std configuration with Front door, rear panel and 1 M Plate	AM 181050 110
44	1800x1000x600	Std configuration with Front door, rear panel and 1 M Plate	AM 181060 110
45	1800x1000x800	Std configuration with Front door, rear panel and 1 M Plate	AM 181080 110
46	1800x1000x1000	Std configuration with Front door, rear panel and 1 M Plate	AM 181010 110
47	1800x1200x400	Std configuration with Front door, rear panel and 1 M Plate	AM 181240 110
48	1800x1200x500	Std configuration with Front door, rear panel and 1 M Plate	AM 181250 110
49	1800x1200x600	Std configuration with Front door, rear panel and 1 M Plate	AM 181260 110
50	1800x1200x800	Std configuration with Front door, rear panel and 1 M Plate	AM 181280 110
51	1600x600x400	Std configuration with Front door, rear panel and 1 M Plate	AM 166040 110
52	1600x600x500	Std configuration with Front door, rear panel and 1 M Plate	AM 166050 110
53	1600x600x600	Std configuration with Front door, rear panel and 1 M Plate	AM 166060 110
54	1600x600x800	Std configuration with Front door, rear panel and 1 M Plate	AM 166080 110
55	1600x600x1000	Std configuration with Front door, rear panel and 1 M Plate	AM 166010 110
56	1600x600x1200	Std configuration with Front door, rear panel and 1 M Plate	AM 166012 110
57	1600x800x400	Std configuration with Front door, rear panel and 1 M Plate	AM 168040 110
58	1600x800x500	Std configuration with Front door, rear panel and 1 M Plate	AM 168050 110
59	1600x800x600	Std configuration with Front door, rear panel and 1 M Plate	AM 168060 110
60	1600x800x800	Std configuration with Front door, rear panel and 1 M Plate	AM 168080 110
61	1600x800x1000	Std configuration with Front door, rear panel and 1 M Plate	AM 168010 110
62	1600x800x1200	Std configuration with Front door, rear panel and 1 M Plate	AM 168012 110
63	1600x1000x400	Std configuration with Front door, rear panel and 1 M Plate	AM 161040 110
64	1600x1000x500	Std configuration with Front door, rear panel and 1 M Plate	AM 161050 110
65	1600x1000x600	Std configuration with Front door, rear panel and 1 M Plate	AM 161060 110
66	1600x1000x800	Std configuration with Front door, rear panel and 1 M Plate	AM 161080 110
67	1600x1000x1000	Std configuration with Front door, rear panel and 1 M Plate	AM 161010 110
68	1600x1200x400	Std configuration with Front door, rear panel and 1 M Plate	AM 161240 110
69	1600x1200x500	Std configuration with Front door, rear panel and 1 M Plate	AM 161250 110
70	1600x1200x600	Std configuration with Front door, rear panel and 1 M Plate	AM 161260 110
71	1600x1200x800	Std configuration with Front door, rear panel and 1 M Plate	AM 161280 110

Side panels	Article nos.
2200x600	AMSP 2260
2200x800	AMSP 2280
2000x400	AMSP 2040
2000x500	AMSP 2050
2000x600	AMSP 2060
2000x800	AMSP 2080
2000x1000	AMSP 2010
2000x1200	AMSP 2012
1800x400	AMSP 1840
1800x500	AMSP 1850
1800x600	AMSP 1860
1800x800	AMSP 1880
1800x1000	AMSP 1810
1800x1200	AMSP 1812
1600x400	AMSP 1640
1600x500	AMSP 1650
1600x600	AMSP 1660
1600x800	AMSP 1680
1600x1000	AMSP 1610
1600x1200	AMSP 1612

Plinth (h*w*d)	Article nos.
100x1000x400	AM-PL 101040
100x1000x500	AM-PL 101050
100x1000x600	AM-PL 101060
100x1000x800	AM-PL 101080
100x1000x1000	AM-PL 101010
100x1200x400	AM-PL 101240
100x1200x500	AM-PL 101250
100x1200x600	AM-PL 101260
100x1200x800	AM-PL 101280

Plinth (h*w*d)	Article nos.
100x600x400	AM-PL 106040
100x600x500	AM-PL 106050
100x600x600	AM-PL 106060
100x600x800	AM-PL 106080
100x600x1000	AM-PL 106010
100x600x1200	AM-PL 106012
100x800x400	AM-PL 108040
100x800x500	AM-PL 108050
100x800x600	AM-PL 108060
100x800x800	AM-PL 108080
100x800x1000	AM-PL 108010
100x800x1200	AM-PL 108012



## AutoMax EMC

Unforeseen fluctuations in an electronic or electrical circuit due to basic design or un-balanced load in primary circuits give rise to unpleasant effects in and around their ambience of operation. These issues come under the preview of electromagnetic compatibility also known as EMI (Electromagnetic Interference) / RFI (Radio frequency Interference).

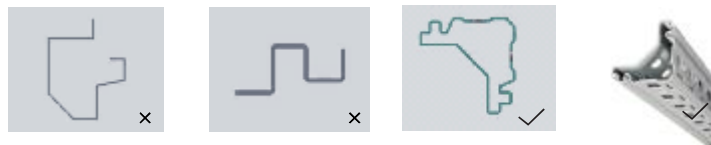
At Valrack, we have since inception in 1993, worked closely with premier research and development institutes engaged in major national and international projects and have provided them with EMC enclosures for housing critical electronics and also large racks to enclose these subracks in the field providing Ingress protection along with EMC

### International Standard Conformity

- IEC – 61587 – 3  
Mechanical Structures for electronic equipment.  
Part 3: Electromagnetic shielding performance tests for cabinets, racks and subracks.
- IEC – 61000-5-7  
Electromagnetic compatibility part 5-7.  
Degrees of protection provided by enclosures against electromagnetic disturbances.
- IEC – 60529.  
Tests for Ingress Protection of enclosures against dust and water.

### Universal, Symmetrical, Multi-Bend Solid Frame:

A solid frame design beyond a C channel or L - section. As larger surface area is the key ingredient to better EMC design.



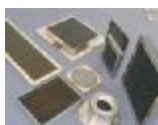
#### EMI conductive fabric:

- A conductive copper fabric is pasted with conductive glue over this Poly-urethane 'foam-in-place' gasket strengthening the fixation of gasket. The overall conductive gasket width to 60mm on the door and 90mm on the frame.
- Conductive copper fabric application on both the cladding and the frame.
- The total conductive gasket width is 150 mm (60mm on door and 90mm on the frame). This is an industry first!

### Accessories:



Door Limit Switch



EMC Honey comb mesh filter



Fan



Tube Light



## Fire Alarm Systems



## HVAC



# AutoTek

Industrial Enclosure Solutions

## Wireless & RFID



Enclosure IP-55 with toughened glass door for RFID Reader



## Access Control, Boom Barriers, Auto doors



Enclosure IP-55 with toughened glass door for door access reader



Enclosure IP-55 with toughened glass door for Motorized gate control



## Lifts & Escalator Systems



AutoTek - IP-54 for Machine room control panels



## Plumbing Systems



AutoTek - IP-54 for Plumbing automation



## Addressable Lighting Systems



AutoTek -54 for lighting Control



Floor Mount

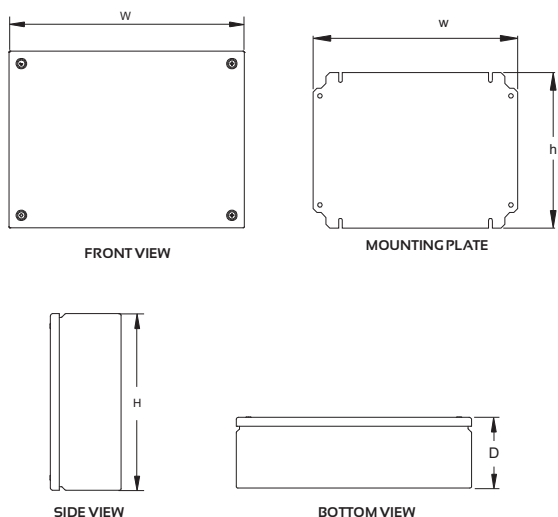


Terminal Box



Wall Mount

## AutoTek Terminal Box with bolted cover



### Construction

Wall mountable design with front screw cover with body flange brackets welded on four inner corners for cover fixing. PU foam-in-place gasket is provided over the front cover for high ingress protection. Profile strips welded on the inner body at equi-distance for fixing Mounting plate or Din rails.

### Material

**Enclosure:** Steel sheet (CRCA) 1.25mm thick.

**Front cover:** Steel sheet (CRCA) 1.25mm thick. Optional

**Mounting plate:** Steel sheet (CRCA) 2.0 mm thick.

### Finish

Enclosure: Powder coated with RAL7035, structure finish

### Protection category

IP 66 as per IEC 60529 (NEMA 4)

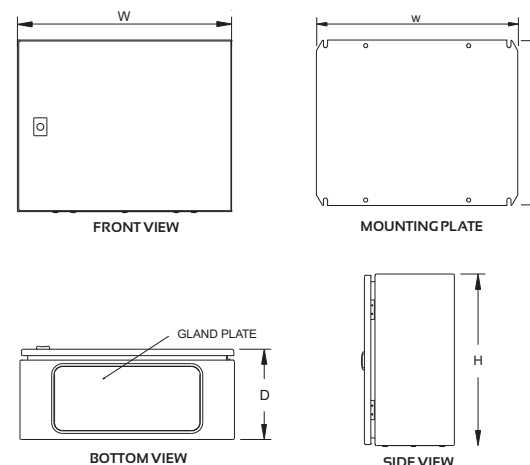
### Supply includes:

Enclosure with screw cover without gland plate and mounting plate

Article No	Size in mm(h*w*d)	M P Size mm(h*w)
ATT-151580-0	150 X 150 X 80	135*125
ATT-152080-0	150 X 200 X 80	135*175
ATT-153080-0	150 X 300 X 80	135*275
ATT-202080-0	200 X 200 X 80	185*175
ATT-203080-0	200 X 300 X 80	185*275
ATT-204080-0	200 X 400 X 80	185*375
ATT-206080-0	200 X 600 X 80	185*575
ATT-151512-0	150 X 150 X 120	135*125
ATT-152012-0	150 X 200 X 120	135*175
ATT-153012-0	150 X 300 X 120	135*275
ATT-202012-0	200 X 200 X 120	185*175
ATT-203012-0	200 X 300 X 120	185*275
ATT-204012-0	200 X 400 X 120	185*375
ATT-205012-0	200 X 500 X 120	185*475
ATT-206012-0	200 X 600 X 120	185*575
ATT-208012-0	200 X 800 X 120	185*775
ATT-303012-0	300 X 300 X 120	285*275
ATT-304012-0	300 X 400 X 120	285*375
ATT-305012-0	300 X 500 X 120	285*475
ATT-306012-0	300 X 600 X 120	285*575
ATT-404012-0	400 X 400 X 120	385*375
ATT-406012-0	400 X 600 X 120	385*575
ATT-408012-0	400 X 800 X 120	385*775



## AutoTek Wall mount single door



### Construction

All round welded construction, body flange trough design with One Door with interchangeable provision, fitted with stiffeners, robotized Foam-in-place gasketing for additional IP rating, concealed hinges for 120 degree opening, Cam locks one/two nos for locking, bottom gland plate at the bottom for cable entry, 4 holes provided on the rear wall for wall mounting provision and 1 no of Mounting plate fixed at the rearmost side for component mounting.

### Material

**Enclosure:** Steel sheet (CRCA) 1.25 / 1.5mm thick depending on the size of the Enclosure

**Front door:** Steel sheet (CRCA) 1.5 / 2.0mm depending on the size of the Enclosure

**Mounting plate:** Steel sheet (CRCA) 2.0/2.5/3 mm thick depending on the size of the Enclosure

### Finish

**Enclosure:** Powder coated with RAL7035-structure finish - other colors on option at extra cost

**Mounting plate:** GI and other colors on option at extra cost

### Protection category

IP 66 as per IEC 60529 (NEMA 4)

### List of Accessories includes:

Door stay, Glass Window provision on doors, wall mounting brackets both 10 & 40 mm wall clearance, Door operated switch, tube light, Top rain canopy, Snap-fit Filter & Filter with Fans, swing door inside the main door, Plastic drawing pocket of both A3 & A4 Size, Power distribution unit and many more.....

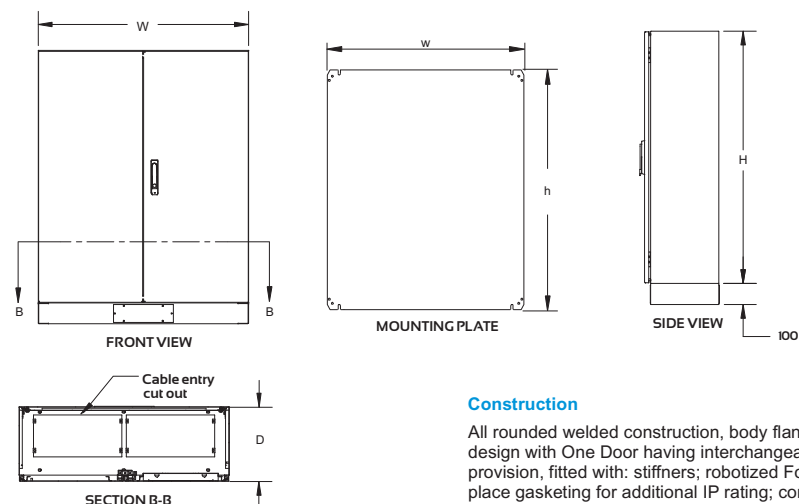


Article No	Size in mm(H*W*D)	M P Size mm(h*w)
ATW-302012-1	300H x 200W x 120D	270*150
ATW-302016-1	300H x 200W x 160D	270*150
ATW-303016-1	300H x 300W x 160D	270*250
ATW-304016-1	300H x 400W x 160D	270*350
ATW-303021-1	300H x 300W x 210D	270*250
ATW-403021-1	400H x 300W x 210D	370*250
ATW-304021-1	300H x 400W x 210D	270*350
ATW-404021-1	400H x 400W x 210D	370*350
ATW-504021-1	500H x 400W x 210D	470*350
ATW-604021-1	600H x 400W x 210D	570*350
ATW-505021-1	500H x 500W x 210D	470*450
ATW-405021-1	400H x 500W x 210D	370*450
ATW-406021-1	400H x 600W x 210D	370*550
ATW-606021-1	600H x 600W x 210D	570*550
ATW-606025-1	600H x 600W x 250D	570*550
ATW-705025-1	700H x 500W x 250D	670*450
ATW-806025-1	800H x 600W x 250D	770*550
ATW-106025-1	1000H x 600W x 250D	945*540
ATW-505030-1	500H x 500W x 300D	470*450
ATW-804030-1	800H x 400W x 300D	770*350
ATW-604035-1	600H x 400W x 350D	570*350
ATW-406035-1	400H x 600W x 350D	370*550
ATW-606035-1	600H x 600W x 350D	570*550
ATW-806035-1	800H x 600W x 350D	770*550
ATW-808021-1	800H x 800W x 210D	770*750
ATW-808030-1	800H x 800W x 300D	770*750
ATW-108030-1	1000H x 800W x 300D	940*750*
ATW-126030-1	1200H x 600W x 300D	1140*540*
ATW-128030-1	1200H x 800W x 300D	1140*740*
ATW-126040-1	1200H x 600W x 400D	1140*540*
ATW-128040-1	1200H x 800W x 400D	1140*740*

\*The Enclosures marked with \*sign are not recommended for wall mounting



## AutoTek Floor mount double door



Floor mount double door		
Article No	Size in mm(h*w*d)	M P Size mm(h*w)
ATW-801021-1	800 X 1000 X 210	730*940
ATW-801030-1	800 X 1000 X 300	730*940
ATW-101030-1	1000 X 1000 X 300	930*940
ATW-121030-1	1200 X 1000 X 310	1130*940
ATW-141030-1	1400 X 1000 X 300	1330*940
ATW-101040-1	1000 X 1000 X 400	930*940
ATW-121240-1	1200 X 1200 X 400	1130*1140
ATW-121040-1	1200 X 1000 X 400	1130*940
ATW-141040-1	1400 X 1000 X 400	1330*940



### Construction

All rounded welded construction, body flange trough design with One Door having interchangeable provision, fitted with: stiffeners; robotized Foam-in-place gasketing for additional IP rating; concealed hinges for 120deg opening; Cam locks one-two nos for locking and bottom gland plate at the bottom.

### Material

**Enclosure:** Steel sheet (CRCA) 1.5 / 2 mm

**Front door:** Steel sheet (CRCA) 2.0mm

**Mounting plate:** Steel sheet (CRCA) 2.5/3.0mm

**Plinth:** C Type Construction of 2.5mm CRCA

Offered on request at extra cost

### Finish

**Enclosure:** Powder coated with RAL7035-structure finish- other colors on option at extra cost

**Mounting plate:** GI and other colors on option at extra cost

### Protection category

IP 55 as per IEC 60529 (NEMA 12)

### List of Accessories includes:

Plinth, Swing Handle with key, Door stay, Glass Window provision on doors, wall mounting brackets both 10 & 40 mm wall clearance, Door operated switch, tube light, Top rain canopy, Snap-fit Filter & Filter with Fans, swing door inside the main door, Plastic drawing pocket of both A3 & A4 Size, Power distribution unit and many more.....

### Note:

AutoTek Series Floor mounted, Welded construction Enclosures for a height upto 2000mm with depth upto 800mm with varied widths can be offered on request. The design is Valrack patented with additional reinforcement for rigidity and versatility with side access

## AutoMax & AutoTek Accessories



Wiring plan pocket



Swing frame



Side Mounting Plates



Plinths for Wall Mounts



Shelves



Door Stay



Door Stay  
Door operated switch



Lifting Eye Bolts



Castor Wheels



Lower + Filter with/without fan



Cam Lock



The Folding Laptop shelf



Tube light & Limit Switch



Wall Mounting  
Brackets



Swing Handle



Spray Can

AutoMax & AutoTek Accessories



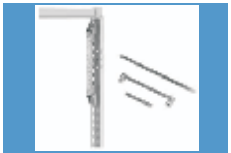
Bottom support channels



Viewing Window



Door-in-Door



Earthing Rails



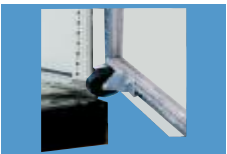
Cage nuts



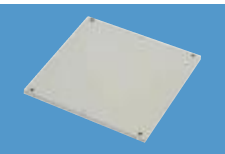
Lifting Angles



Cable Grommets



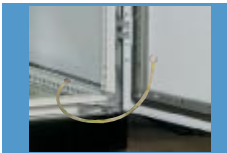
Ride Up Rollers



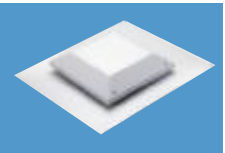
Roof Plate



Top Cable Chamber



Earthing Kit



Pagoda Roof



Glass Door



Divider Panels



Thermostat



# Truly Modular Aluminum extruded robust frame construction

Step 1  
19" rack mountable (12U)  
space console case



Step 2: Base Plinth



Step 3: Display Section



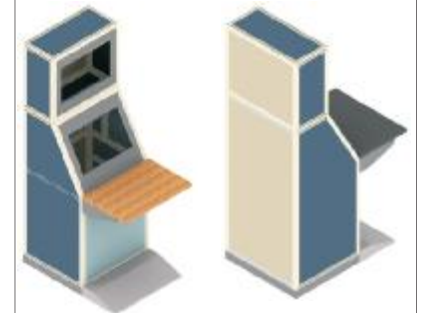
Step 4: Work surface



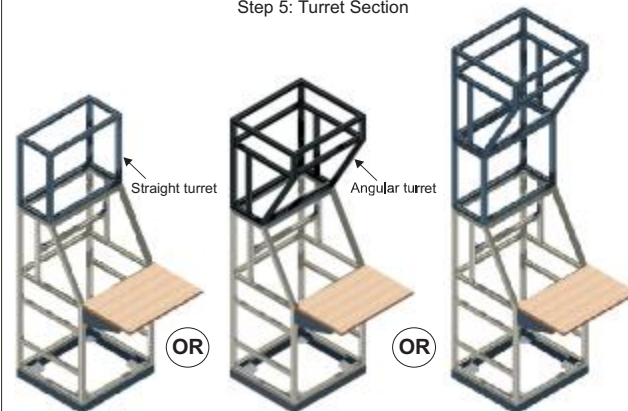
Step 9: Pie Section



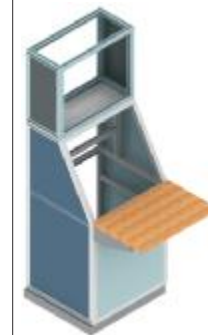
Step 8  
Front Bessel, Rear doors/ Panels & Foot Rest



Step 5: Turret Section



Step 6: Side panel



Step 7  
Top & bottom Panel





- Designed for flat panel displays, monitors & monitoring equipments.
- Single- tier low profile with two or three tier height options.
- Powder-coated textured finish.
- Aluminium frame structure with steel side and top panels.
- Custom laminated side and top panels available.
- Locking rear doors with thumb turn latches or key locks.
- Flat-packed/ Pre-assembled/ On-site installation options available.
- 19" rack mountable space (12U) below work surface per bay.



Sliding shelf fitted below the worktable, serves to hold non-rack mountable items like a keyboard, mouse, etc.

Ergonomic\* in design, they are a custom furniture solution that encloses a range of technical equipment, right from a basic monitor and CPU to the latest in business and industrial electrical equipment. VALRACK® Consoles are constructed of durable materials that can withstand a 24/7 control room environment. They can securely house equipment and electrical components in an integrated and structurally robust unit.

\* specially designed to reduce eye stress and body strain.

Significantly used in vertical markets with origins in:

- Air Traffic Control
- Oil & Gas
- Telecommunication network centre
- Transportation nodes.
- Utilities control point.
- Corporate board and seminar rooms.



Bevelled bessel designed for flat panel displays monitors and monitoring equipments

We use the latest tools in communications and design. The ideal solutions are realized from single operator workstations to large state of the art control rooms.

- Designed for flat panel displays with optional mounting system for CRT monitors.
- Single - tier low profile with two or three tier height options
- Black powder-coated textured finish
- Aluminium frame with steel side and top panels
- Custom laminated side and top panels available
- Locking rear doors with thumb turn latches or key locks



Stainless steel foot rest provision for better comfort; console balance with aesthetics.

#### 2-tier Top Module with LCD mounting:

Top tier has 12U (525mm) of vertical space: 274 mm depth, the module includes two spaces for flat panel displays units. Bottom tier includes two more spaces for LCD's on a tilt, for effective viewing for ergonomically correct angles.

#### Base Module with work surface:

Base unit includes:

- a versatile work table (400mm depth) that comes in different table top surfaces and colours that complement.
- Sliding shelf: Fitted below the worktable, serves to hold non-rack mountable items like a keyboard, mouse, etc.
- Storage cabinet: Can be custom built to hold all your storage needs.
- Stationary shelf: Can be used to hold heavier equipment and CPUs.
- Keyboard shelf: Sliding shelf with mouse pad.
- 19" mountable 12U space below work surface.

**Stainless steel foot rest:** Optional provision for better comfort; console balance with aesthetics.

**Custom end panels:** Designer panels made to beautify the console. Also can feature logos.

**Wire and cable management system:** Are designed for complex solution needs.

Optional castors for easy moving: base pedestals; extra braces are provided.

#### ConsoleTek - M :

ConsoleTek platform has also evolved for use in industrial applications where the ambient is harsh. Built on the same design we ConsoleTek - M is now an industry favorite. Single user or multi user applications are available with complete foam in place gasket, provided for freedom from dust and water. The construction is modular with all the base models fabricated in metal and in an all-weld design theme.



- Modifications on the standardized design possible. Provision for cut-outs and gland plates available on request.
- Lower Base section generally mounted on a base plinth. Center section as a work desk or a sloped display section.
- Various options for work desk - Fixed / hinged keyboard tray with drop down flap upper tier with reverse slope for ergonomic display.

#### Material / Surface finish

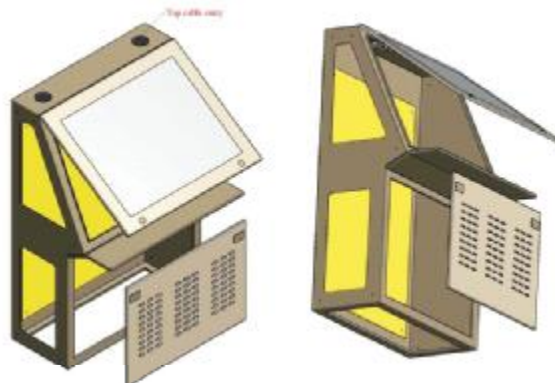
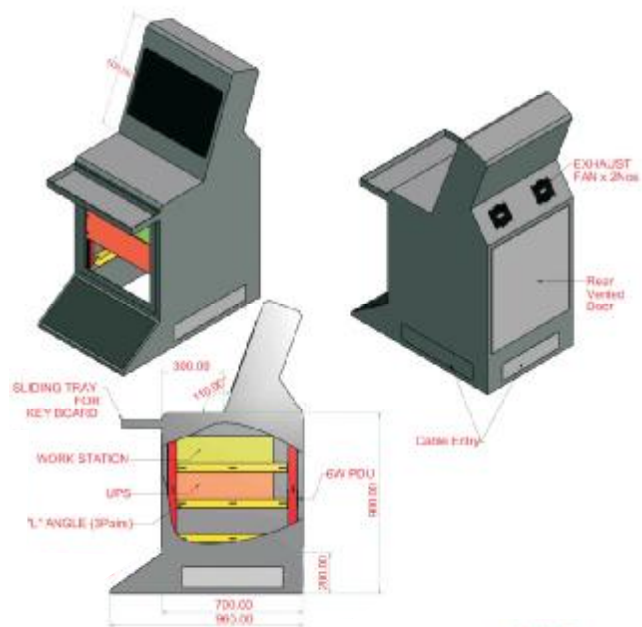
Sheet Steel : 2mm / 1.5 mm

Surface finish : RAL 7035 Structure finish.



## ConsoleTek - M

- Another variation in all welded construction is a 14 SWG steel frame construction.
- Constructed in 14-gauge steel (frame), 16-gauge steel (side panels) and 14-gauge steel (rails).
- Choice of two depths 600mm & 800 mm usable depth.
- Sloped panel height for display equipment.
- Front panel / Door.
- 19" provision available as option.
- Foam in place gasket on doors and side panels.



## An Intelligent range of PCC, MCC, PMCC, PDB

ElectroMod is a uniquely engineered low tension modular switchboard to address the market space for highly reliable electrical systems. Designed for fixed and draw-out versions, its long feature list is a major attraction to the quality conscious buyer. All internal form separations are built in accordance with IEC 439 Form 1 – 4.

- Due to the complete modularity of the system, the physical dimensions of the functional units can be varied in all 3 axes.
- This allows complete optimization of design with respect to the overall dimensions of assembly, heat dissipation, service and maintenance.
- Electrical equipment from most manufacturers may be fitted in accordance with the manufacturer's preferences.
- To secure the overall safety level of the assembly all components are manufactured from steel or high grade polymer to resist the spread of fire.
- ElectroMod is designed on a modular switchboard concept thereby providing flexibility allowing almost any configuration and size.

- The system enables any configuration of:

Main Power Control Centers.

Sub Distribution Boards.

Motor Control Centers & Control Panels.



The ElectroMod frame is built in 2mm special steel using Roll form technology enhancing its structural strength. Eight die cast corner blocks hold the frame in all the 3 axes resulting in robust frame structure.

## Product Specification :

<b>Internal Separation</b>	- Panel shall be available in Form 3B and also in Optional Form 4
<b>Applicable Standard</b>	- As per IEC 61439-1 Standards
<b>Fault Level</b>	- 65 kA for 1 sec.
<b>Degree of Protection</b>	- IP52 & Optional IP54 Level Protection
<b>Voltage Rating</b>	- From 660-1000 volts
<b>Max Current Ampers</b>	- 3200 Amps
<b>Painting Shade</b>	- RAL 7035 texture for frame & doors Base Plinth Black Texture - black board black
<b>Busbars</b>	- Main Busbars shrouded not accessible from front & rear Busbars will be 3 Phase + Neutral (Al. Alloy as per IS: 5082 and of 63401 grade)
<b>Fabrication Details</b>	- Load bearing members = 2mm thick CRCA Partition doors = 2 mm thick CRCA Partitions and Covers= 1.5 mm thick CRCA Base Channel 75 mm height = 3mm thick CRCA ( Provision with grouting holes) Back Plate = 2mm thick CRCA plain (holes etc. via Valrack design office support) Gland Plate = 2mm thick CRCA (removable) Door opening 120 Deg Doors with Earth Studs
<b>Dimensions</b>	- H x W x D - O/G Panels      H x W x D - ACB Incomer & ACB O/G Panels 2300 x 750 x 800mm      2300 x 800 x 800mm
<b>Cable Entry</b>	- Cable Entry from Top & Bottom Unless & until specified cable entry from bottom, Main Busbars at top ( cable layout & gland layout - design office)
<b>Accessories</b>	- Grommets, Equipment Shrouds, Cable Layouts, Glands for IP
<b>Outgoing Feeder</b>	- Insulating Support for outgoing Feeders upto 100 amps by cables more than 100 amps by links outgoing link will be flexible & solid link outgoing link /post support will be conical support of DMC or SMC
<b>Shipping Section</b>	- Shipping section of the cubical & busbar arrangement in lieu of shipping section

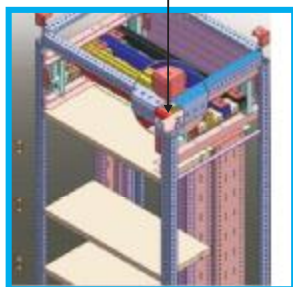




## ElectroMod Features

Breaking convention of L and C channel designs here, we introduce ElectroMod with a host of features.

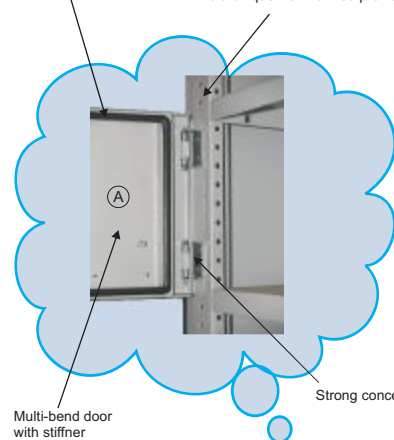
Die-cast corner block arrangement.



- Robust multi-bend structural member symmetrical in design
- Same member along all the 3 axes,
- Uniform pitch pattern cage nut holding provision along entire frame structure,
- All eight corners secured with high density die cast blocks,
- M12 lifting bolts provision on the die cast corner blocks.
- Each corner is secured using hardened hex bolts,
- All cladding are provided with foam in place gasket.
- Doors have multi bend design with in-built stiffener.
- Concealed and sturdy hinges.
- All doors with self aligning mechanism in-built.
- Unique bus bar supports in high grade polymer material.

PU Gasket .....our competitive edge!

7 fold unique Roll Formed profile.



Universal pitch pattern facilitate rating up-gradation



Unique Plinth design



Tried and tested foam in place polyurethane gasket joint free technology (UL-Listed). This will work with the same efficiency in detecting the equipment with similar efficiency ranging under sub-zero temperatures to summer extremities in a desert.



Tool Operated door lock.



Sturdy concealed hinge concept.



Door self aligning feature

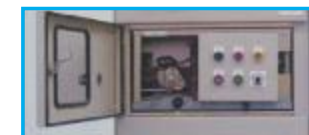
## Feeder Arrangement

### Technical Data

Max no. of Feeder - 6U (500mm)  
 Max Drawout Feeder Size - 5U  
 Active Feeder Size - 5U  
 Normalise "U" - 250mm  
 Command Module - Ready to configure  
 Test, Service, Isolation - Available  
 Feeder more than 6U - Semi Drawout



Fixed Feeder



Drawout Feeder

## BusBar Systems



### Fixed

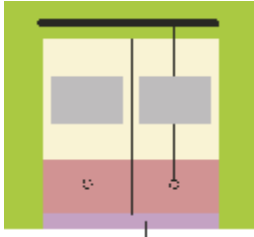
- A Unique Compact clip-on Bus support system capability to with stand 65kA
- Popular busbar size for main Bus systems  
 Sizes:- a) 50 x 12 aluminium  
 b) 120 x 12 aluminium  
 c) 160 x 12 aluminium
- Vertical busbar rated for 800 Amps.

### Drawout

- A Unique Compact clip-on Bus support system capability to with stand 65kA
- Vertical busbar rated for 800 Amps.
- Unique plug-in & plug-out Drawout systems.
- Busbar shrouded with Shutter Provision.

## Form Separation

Our Approach for Form Separation ( IEC 61439-1) a Few Highlights:



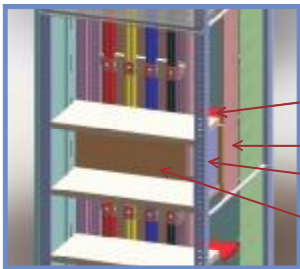
### Form 4b Separation:

Separation of busbars from the function units.  
Separation of functional units from one another  
Separation of terminals of function units.  
Terminals NOT in same compartment as functional unit.

**Type 4:** Busbar separations by insulated coverings  
e.g sleeving, wrapping or coatings,  
Cable glanded elsewhere.

**Type5:** Busbar separations by metallic or non metallic rigid barriers or partitions. Terminals separated by insulated coverings.  
Cable glanded in common cabling chamber

**Type 6:** All separation by metallic or non metallic rigid barriers or partitions.  
cable glanded in common cabling chamber.



Separation of terminals  
of function unit  
Rigid barriers or partitions.  
Separation of functional  
units from one another  
Separation of busbars  
from the functional units.

- Cable alley fully Isolated from Feeder
- Non Accessible Bus Bar Area
- Feeder Termination On side/Out side-Size Deferred
- Feeder maintenance in live Conditions

## AutoTek Wallmount for MCB & MCCB



## IP Rating Chart

Protection provided by enclosures for electrical equipment is indicated by the IP

Code, basically by the two characteristic numerals.

### First Numeral

Protection against the ingress of solid particles



### Second Numeral

Protection against harmful ingress of water

IP Requirements/Example	Protection of persons against access to hazardous parts with:	IP Requirements/Example	Protection from water
0 No protection	Non-protected	0 No protection	Non-protected
1 Full penetration of 50 mm diameter sphere not allowed. Contact with hazardous parts not permitted.	Back of hand	1 Protected against vertically falling drops of water. Limited ingress permitted.	Vertically dripping
2 Full penetration of 12.5 mm diameter sphere not allowed. The jointed test finger shall have adequate clearance from hazardous parts.	Finger	2 Protected against vertically falling drops of water with the enclosure tilted 15° from the vertical. Limited ingress permitted.	Dripping up to 15° from the vertical
3 The access probe of 2.5 mm diameter shall not penetrate.	Tool	3 Protected against sprays to 60° from the vertical. Limited ingress permitted.	Limited spraying
4 The access probe of 1.0 mm diameter shall not penetrate.	Wire	4 Protected against water splashed from all directions. Limited ingress permitted.	Splashing from all directions
5 Limited ingress of dust permitted (no harmful deposit).	Wire	5 Protected against jets of water. Limited ingress permitted.	Hosing jets from all directions
6 Totally protected against the ingress of dust.	Wire	6 Protected against strong jets of water. Limited ingress permitted.	Strong hosing jets from all directions
		7 Protected against the effects of immersion between 15 cm and 1 m.	Temporary immersion
		8 Protected against long periods of immersion under pressure	Continuous immersion

This Chart is intended to be read in conjunction with AS60529. Degrees of protection provided by enclosures for electrical equipment (IP Code).

The symbols shown on this chart are for explanatory purposes only. They are not part of the IP Code and must not be used instead of the Code.



IEC - 61000-5-7  
Electromagnetic compatibility part 5-7.  
Degrees of protection provided by  
enclosures against electromagnetic  
disturbances.

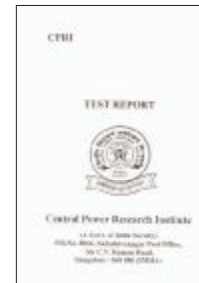


IEC - 61587 - 3  
Mechanical Structures for electronic  
equipment. Part 3:  
Electromagnetic shielding performance  
tests for cabinets, racks and subracks.

## Tests Reports & Certificates Available



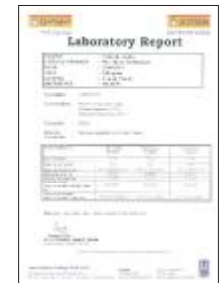
Quality Management Systems  
to ISO 9001:2008 Standard



IP Test as per IEC 60529  
Edition 2.1, 2001 - 02



EMC Test as per  
MIL - 285 Standard



Salt Spray Test as per  
ASTM B117 Standard



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