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DRY TYPE TRANSFORMER

Cast Resin Transformers

Raychem RPG offers an extensive range of Cast resin transformers for any kind of application. We have provided solutions to a wide range of requirements including special applications i.e. Series Reactors, 6 & 12 pulse transformers, K rated transformers, Motor starting transformers, Excitation Transformers, Scott connected transformers, 3 Phase to 2 Phase open delta transformers, Auto Transformers and Transformers with 48 secondary windings. We have a filled Resin system and casting is carried out in automated Casting plant monitored online "Hedrich", Germany. The state of art casting facility ensures lowest PD levels.

Raychem Transformers are E2, C2 & F1 compliant as per IEC60076-11. Raychem Transformers are safe in high humidity, pollution and avoid all fire risks. Raychem Transformers are manufactured with fire retardant insulating and self extinguishing materials of Class F & H (Up to temp. 155°C / 180°C).

Raychem Transformers are manufactured strictly as per the customer specifications and IS/IEC Standards and are virtually maintenance free. Raychem Transformers are supplied with or without enclosures according to required degree of protection and are suitable for installation in public/Govt. buildings, Subways, Basements, Hospitals, Residential Complex, Banks, Industries, Malls etc.

Segments Supply

- Infrastructure
- Industries
- OEMs
- Renewables
- Oil & Gas
- Generation
- Metro



Features and Advantages

- Reduced environmental contamination
- Non hygroscopic & fire retardant with self-extinguish property
- Full compatibility of thermal co efficient of expansion of Copper/Aluminium with resin mixture resulting in flawless casting. No cracks over entire period of life.
- High impulse and dynamic short circuit strength
- Low partial discharges (As per IEC 60076-11)
- Designed for high performance towards dealing with seismic phenomena
- Available in aluminum as well as copper conductor.
- IP protection up to IP44, and even up to IP54 for smaller ratings.

Technical Specifications

Rating	100 kVA to 20 MVA
Voltage Class	Up to 33kVA
Frequency	50/60 Hz
No of Phase	Single & Three Phase
Cooling	AN/AF
Vector Group	As per customer requirement
Winding Material	Aluminum/ Copper
Tapping	OCTL, OCTC, OLTC
Insulation Class	F,H
Applicable Standards	IS11171, IEC60076



VPI Transformers

Raychem RPG offers an exciting range of Vacuum Pressure Impregnated (VPI) transformers for power, distribution and Industrial application. Raychem provides transformers for LV and MV drives consisting of phase shifted windings for 24 and 36 pulse. Raychem Drive control transformers are multi-winding. (4,6,9,18, 27) designed to meet stringent specifications and are used in all industrial environment ranging from steel, sugar, chemical etc. Raychem RPG VPI type transformers are widely used for special industrial applications like drive control systems; it can also be used in distribution network with IP54 construction. These transformers are suitable for operation up to 220°C temperature (Up to class R insulation) Raychem has also provided special testing transformers for testing of Drives and Inverters.



Features and Advantages

- Impregnation process is automatic and it ensures a void free insulation
- Multiple voltages on primary and secondary side to suit customer requirement
- Fans can be used to upgrade the rating
- Higher resistance to fire than oil
- Suitable for harmonic loading.
- Winding : Aluminum and Copper
- Low voltage winding with high current taps provided
- Core loop testing transformer for turbo gensets

Segments Supply

- Infrastructure (Buildings, Hospitals, Hotels, Residential complex, etc)
- Industries
- OEMs
- Distribution Network

Technical Specifications

Rating	100 kVA to 10 MVA
Voltage Class	Up to 33kVA
Frequency	50/60 Hz
No of Phase	Single & Three Phase
Cooling	AN/AF
Vector Group	As per customer requirement
Winding Material	Aluminum/Copper
Tapping	OCTL, OCTC, OLTC
Insulation Class	F,H
Applicable Standards	IS11171, IEC60076



OIL FILLED TRANSFORMER

Oil Filled Transformer (Distribution & Power)



Raychem RPG manufactures wide range of oil filled transformers designed to meet the specification and provide reliable service. The range includes distribution, medium, power, generator transformers up to 40 MVA 132 kV class.

- Conventional Type
- Hermetically sealed with Radiators and Dry air/Nitrogen cushion
- Hermetically sealed with Corrugated tanks
- Transformer with Natural/Synthetic Ester fluids

Segments Supply

- Utilities
- All industries like Cement, Steel, Sugar, Textile, Mining, Automobile, etc.
- Oil & Gas

Features and Advantages

- Designed to meet national/ International standards
- Mineral Oil, Silicon Oil, Ester Oil as per requirement
- Winding Material : Copper/ Aluminium
- Step lap construction and mitred joint for core ensures low noise and excitation power
- Losses as per Star Rating/ BEE Rating IS1180 up to 2.5 MVA , 33 kV
- Distribution Transformers with fuse and offload isolator on HV side and switch fuse unit on LV side.
- Multi-ratio Transformer with OLTC/ OCTC 33-22/0.433, 33-11/0.433, 22-11/0.433, 33/11-6.6, 11-6/0.42 kV
- Surface preparation and painting as per ISO 12944
- Transformer for plasma research having 50 secondary windings

Technical Specifications

Rating	100kVA to 40MVA
Voltage Class	Up to 132kVA
Frequency	50/60 Hz
No of Phase	Single & Three Phase
Cooling	ONAN/ONAF
Vector Group	As per customer requirement
Winding Material	Aluminum/ Copper
Tapping	Off circuit or OLTC
Insulating Fluid	Mineral Oil/ Silicon Oil/ Ester Fluids
Applicable Standards	IS2026, IS1180, IEC60076

SPECIAL TYPE TRANSFORMER



Converter Duty/Drive Duty Transformers



Raychem RPG offers converter transformers. These are designed for one or more output windings connected to the rectifier loads. Drives duty or converter Transformer are multi pulse, multi winding rectifier Transformers for Motor Drives applications. The number of secondary windings can be 2,4,6, 9, 12, 15, 18 and 27. Each secondary winding feeds a power cell containing 3 phase bridge rectifier. These transformers are supplied to meet the requirement of LV and MV drives and specifically designed to mitigate the effects of harmonics generated by drives.

The transformers are available in Dry as well as Oil.

Features and Advantages

- K Rated transformer for converter application
- Equivalent rating calculation considering overloading and Harmonics
- Designed for reduced harmonics
- Complete range of Perfect Harmony series
- Earth shield between HV & LV windings to avoid transfer of high frequency transients to HV/LV side

Technical Specifications

	Dry Type (VRI/CRT)	Oil Filled
Rating	Up to 10 MVA	Up to 20MVA
Voltage Class	Up to 11kV	Up to 33kV
Frequency	50/60 Hz	ONAN/ONAF
Cooling	AN/AF	AN/AF
Vector Group	Extended Delta	Dd0y11, Dyn11-yn11, Dyn11-yn11yn11yn11 & D+15 D+7.5 D-15 D-7.5 on HV side
Winding Material	Aluminum/ Copper	Aluminum/ Copper
Insulating Class	F/H/R	A
No. of Pulse	12, 24, 36, 48	12, 24, 36

Segments Supply

- Industries (Sugar, Mining, Transportation, Textile, cement, steel & Automobile)
- All Drive OEMs

Furnace Transformers

Raychem RPG offers various types of Furnace transformers like Electric Arc furnace, Submerged arc, Rectifier duty & Ladle furnace transformers.

Raychem Arc transformers are designed to withstand repeated high mechanical and thermal stresses resulting from electric arc in furnace. The furnace transformer supplying power to Electric Arc Furnace has to handle extremely high currents in the order of kilo-Amps depending upon furnace ratings. If required Furnace transformers are also equipped with internal series reactor to control current fluctuations. Raychem Arc furnace transformers are equipped with low voltage control by regulating winding, auto transformer and buck boost transformers to suit customer requirement. The furnace transformers are provided with oil to water heat exchanger with 100% standby capacity.

Features and Advantages

- Very High currents as compared to Conventional transformers
- Provides large low voltage variation to suit furnace application
- Withstand harmonics generated due to rectifier, furnace operation
- Provided with OFWF cooling with 100% standby capacity
- Can be provided with Off circuit tap changer and On load tap changer

Segments Supply

- Steel plant
- Rolling mills
- Industries (Cement, Steel, Mining etc.,)
- Non Ferrous Metal industries



Technical Specifications

Rating	Up to 30MVA
Primary Voltage	Up to 33kV
Secondary Voltage	As per requirement
No of Phase	Single & Three Phase
Cooling	ONAN/OFWF
Winding Material	Copper
Tapping	Off circuit or OLTC
Insulation Class	A
Applicable Standards	IS2026, IS12977

Grounding/Earthing Transformers

Raychem has provided earthing cum auxiliary transformers upto 33kV system voltage in Oil immersed

It is a special – purpose transformer with a Zigzag or interconnected star winding.

In 3-ph , 3-w unearth system neutral is not available , so in order to provide ground fault protection earthing transformers is used.

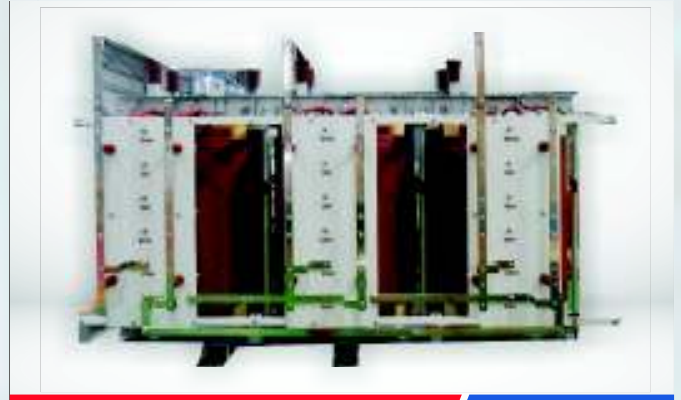
Raychem Grounding transformers are available with and without auxiliary winding to supply local loads.

Features and Advantages:

- Vector groups are Ynd1 (11) , ZN0, ZNyn1 (11)
- Provided with off circuit tap changer
- No phase Displacement
- Artificial Neutral can be created with this type of transformer to provide protection from grounding faults

Segments Supply

- Industries
- EHV Substations



Auto Transformers

An autotransformer has its primary and secondary connected to each other electrically. A portion of the energy in an autotransformer comes from this connection while the balance comes directly from the supply. An autotransformer is a tapped winding transformer that changes the voltage available locally to the voltage required by a particular load. Raychem auto transformers are also used for starting of large induction motors.

Features and Advantages

- Its efficiency is more when compared with the conventional one.
- Its size is relatively very smaller.
- Voltage regulation of auto transformer is much better.
- Lower cost
- Low requirements of excitation current.

Segments Supply

- Power Stations
- Industries
- Railways



Inverter Duty Transformer (Solar Application)

Raychem RPG offers a wide variety of Inverter duty transformers with two inverter windings to six inverter windings. Raychem leads the market and is the 1st manufacturer who developed five winding transformers and passed short circuit test. We are market leaders and hold more than 20% market share in Inverter duty transformer.

Raychem offers inverter transformers with many innovations in order to reduce the cost of solar plants. The four inverter windings and six inverter windings transformers have made it feasible to reduce HV side hardware. The ever increasing rating of inverters have pushed the rating of inverter transformers from 2 MVA to 12.5 MVA in a brief span of 5 years.



Features and Advantages:

- Suitable for Solar load profile
- Inverter windings are specifically designed to withstand voltages excursions that arise due to pulsed mode inverter operation
- Inverter windings are capable of withstanding voltages with rate of rise (dV/dt) up to $500V/\mu s$ to ground
- Galvanically isolated inverter winding for each inverter
- Electrostatic shield between inverter winding and MV winding
- Windings : Aluminium and Copper
- Inverter winding could be star/delta. In case of star winding neutral not to be grounded
- Low no load losses
- Also available in dry type construction.

Segments Supply

- Renewable energy (Solar applications)

Pad Mounted Transformers

Raychem RPG designed and developed 3 phase Pad Mounted Transformer as per IEEE standard. The Pad Mounted Transformer consist of transformer with HV and LV side protection and having option for operation on ring feeders. The HV side consist of fuses for short circuit and thermal protection and load break switch for isolation. The LV side consist of MCCBs and fuses as per customer requirement. The HV and LV connections and protections are accessible through front open compartments having duly interlocked doors. Thus Pad Mounted Transformer is complete in all respect to replace a Compact Substation.

The basic advantage lies in the smaller footprints offered by Pad Mounted Transformer compared to Compact Substation. The Pad Mounted Transformer is specifically suitable for Urban distribution system wherein each Pad Mounted Transformer can cater to one building/housing complex. A hood over the tank, accessible through the cabinet, provides protection against tampering and the environment. The available range from 300kVA to 4000kVA up to 33kV primary voltage and up to 600V at secondary side.

Features and Advantages

- Reduction in footprints compared to Compact Substation and distribution Transformer Substation
- Supplied Completely assembled, requires less time for commissioning.
- Ideally suited for Metro cities
- Available with mineral oil/ ester fluids
- Reduced environmental impact

Segments Supply

- Urban Utility
- Industries
- Standalone power supply system for remote areas



Scott-Tee Transformers

A Scott – Tee Transformer is a type of connection used to derive two – phase electric power (90 deg phase rotation) from a three phase source or vice – versa. The Scott Tee transformers reduce unbalance on source side for single phase loads.

Features and Advantages:

- 3phase to 2phase conversion
- Automatic control with 2 phase OLTC
- Off circuit tap changer on LV & HV
- Used for Heat tracing of pipelines carrying chemicals and liquids.
- Light in weight compare to 3ph distribution transformer
- Can be used for two different single phase loads
- Available in Oil and Dry construction

Segments Supply

- Oil & Gas
- Railways



Technical Specifications

Rating	Up to 5MVA
Primary Voltage	Up to 33kV
Frequency	50/60 Hz
No of Phase	3
Cooling	ONAN, AN
Vector Group	Scott-T
Winding Material	Copper/Aluminum
Tapping	Off circuit or OLTC
Construction Features	Conventional Tank Mounted/ Hermetically sealed type/ Dry Type



PACKAGE SUBSTATIONS OIL & DRY TYPE



Features and Advantages

- Modular features enables faster assembly and reduce lead times.
- Vertically mounted compact Panel
- Electrically interlocked doors for Safety
- Auto Door Tripping
- Retrofitting at site
- Improved aesthetics
- Ease of inspections & maintenance
 - Separate Tap No. Inspections & changing transparent door
 - LT Panel transparent inspections window
 - Sliding RMU for the transformer LT Side inspections & maintenance
 - Accessible compartment interconnections system for maintenance of connections
- Thermally stable Transformer compartment

Raychem RPG has designed, developed and Type tested a modular Compact Substation. The speciality lies in reduced size of the Compact Substation. The Raychem Compact Substation is more compact than any other Compact Substation available in the country. Therefore, Raychem Compact Substation offers solutions where space limitation is a prime concern. Raychem Compact Substation for 1MVA 11kV requires (2.1M x 2.5M) 5.25sqm footprints.

Raychem CSS is type tested for following tests :

- Internal Arc Test (20 kAmp for 0.1 sec)
- IP class
- Temperature rise (k5)
- Short circuit test
- Mechanical impact (IK10)

Raychem CSS are available from 100kVA 11 kV to 2500 kVA 33kV.

Segments Supply

- Industries
- Infrastructures (Commercial/Residential buildings, Hospitals, Malls, Hotels)

SWITCHBOARD COMPONENTS



Fabricated/ Sleeved Bus bars

Raychem RPG manufactures & supply wide range of Bus bars with different sizes as well as different designs as per the customer's requirement. We also offer the Bus bars with Raychem Sleeve or PVC sleeves which can provide the better insulation to the live terminals.

The sleeving process is carried out under controlled temperature and air flow conditions, putting to use Raychem RPG's several years of experience with Insulation enhancement systems. We Can produce highly complex accurate Rectangular, Round and Hollow Bus bars of Copper or Aluminium with sleeve without sleeve of various sizes.

Material

Electrolytic Tough Pitch (ETP) copper is used with purity of Copper to 99.99% and Electrolytic grade Aluminium is used for manufacturing Busbars.

Sizes

Width 5mm to 300 mm & Thickness 0.5 to 30mm

Plating

Silver ,Tin, Nickel , Nickel Chrome , Painted or Powder coated as per customer specification.

Applications

- Low and Medium voltage switchgear
- Bus way systems
- Solar Inverters/ Converters
- Switchboards (PCC, MCC, APFC etc)
- Transformers and other electrical equipment

3 Axis /Edge Bending /Twist Bending Busbars

Raychem RPG offers an extensive range of Switch board components. we can produce High Precision 3 Axis Busbars/ Edge Bending /Twist Bending Busbars which are manufactured on STIERLI Bending machines with special tools . Very precise bending is possible with the integrated angle measurement. Differing material-related spring-back tolerances, as occur frequently in copper, can be compensated for automatically. This provides a high level of process reliability and high precision when bending.

Material

ETP Copper and Aluminium.

Sizes

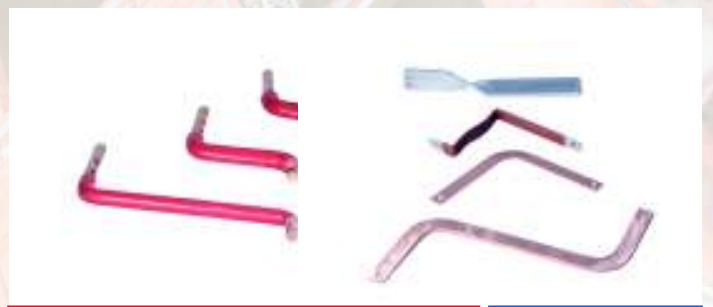
As per customer's specification.

Plating

Silver, Tin or Epoxy coated up to 50 micron.

Applications

- Switchboards
- Ring Main Unit
- GIS
- Transformers and other electrical equipment



Machined / Forged Components

We offer wide range of Precision Copper and aluminium Machined/ Forged Parts made as per customer drawing. These parts are manufactured on a fleet of Turning Centres, Vertical Machining Centres. We are specialized in producing complex components with intricate designs to suit customer requirements.

Material

ETP Copper and Aluminium.

Segments Supply

As per customer's specification.

Plating

Silver, Tin or any other up to 50 micron.

Applications

- Switchboards
- Ring Main Unit
- GIS
- Transformers and other electrical equipment

Contact Assembly

Raychem RPG has developed various types of Sliding type contact assembly which can be used in draw out switchgear panels. These Sub-Assemblies, made as per stringent customer specifications and drawings. The enhanced contact pressure and low contact resistance ensure proper contact without any undue leaking in the panel. These Sub-assemblies incorporate several child parts which include copper, steel, stainless steel, brass, aluminium, plastic, hardware and springs.

The contact pressure is maintained by specially designed guided coil springs and tested on specially designed machine, which ensures adequate contact pressure during the useful service life.

Material

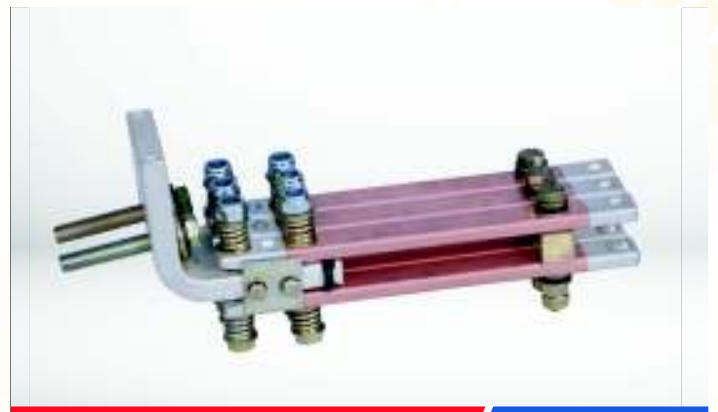
ETP Copper

Plating

Silver or tin as per customer requirement

Applications

- Circuit breakers
- GIS



Copper Flexible Jumpers

Copper Flexibles Jumpers are produced with Electro-Solidification process. Multiple layers of flat copper foils are used and assembled in a parallel or stacked format to achieve the required cross sectional area or agreed current density. In certain circumstances flexible strand is a practical alternative. Flexible jumpers can be supplied insulated and plated. The individual laminates slide smoothly against one another allowing the flexible busbar to be easily shaped, twisted and bent to fit a wide range of panel layouts. When compared to standard round cable, flexible busbar offers space saving advantages due to a tighter bend radius and the ability to replace multiple round conductors with a single piece of flexible busbar. Modification of fewer conductors and the elimination of ring terminals can result in significant The current carrying capacity of laminated copper flexible jumper is at par with that of solid copper bus bars.

Rating

Can produce flexible up to 12000A

Material

ETP Grade Copper

Copper Sizes

Foil width 10 to 150mm

Foil Thickness

0.03 to 1mm

Job Thickness

Up to 30mm

Plating

Foils can be bare or tin, silver-plated as specified

Applications

- Switchboards
- Air circuit breakers
- Solar Inverters
- Transformers and other electrical equipment

Earthing Switch

We are making Earthing switches of 11 kV, 22 kV and 33 kV as per customer design. Earthing switches provided for earthing line / cable. Earthing switch is capable of carrying short time current 40 kA or 50 kA for 1 sec with 102 kA peak. The earthing switch is also capable of making 102 kA peak at 12 kV and 33 kV (full fault making capacity). The switch operation is governed by spring and is independent of manual operation. Once the spring is released, closing operation is taken care by the spring and a very fast closing is achieved. All parts and components are made of laser / CNC machine, thus ensuring uniform accuracy and same performance across any number of pieces supplied.



Applications

- Switchboards

Profile Busbars

We are making various types of Profile busbars . These busbars are produced on Fibre optic laser machine and water jet cutting machine to get the required profile and accuracy .

Profiles Busbars can be used to reduce the weight of copper conductors in an existing product. For an existing oversized conductor, the design flexibility available to define the shape of drawn copper profiles allows the engineer to design a profile smaller without affecting those surfaces which are constrained by the presence of existing support points, or contact interfaces.

Material: Electrolytic Tough Pitch (ETP) copper is used for manufacturing Busbars.

Sizes

Sheet thickness from 1 to 10mm

Plating

Silver ,Tin, Nickel , Nickel Chrome , Painted or Powder coated as per customer specification.

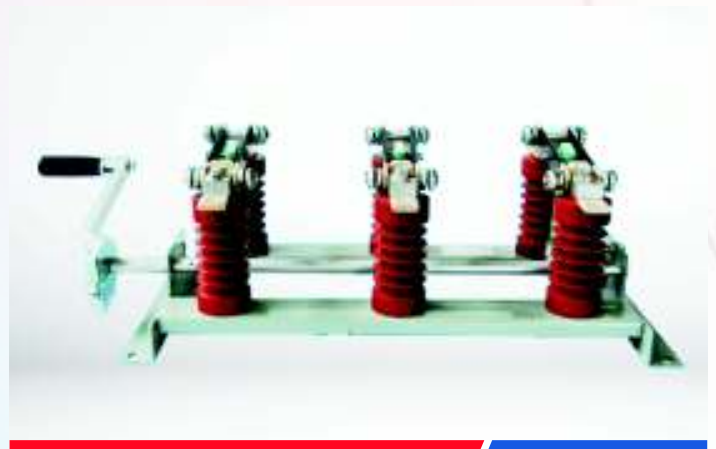
Applications

- Railway Products
- Traction panels
- MV drives



HT Isolators

Raychem RPG has developed the 12 kV triple pole manually operated isolator is designed for indoor application and rated for 400A. It can be directly mounted on walls, structures, switchboards and cable boxes.



Product Features

- CNC Chasis single piece without welding
- Compact design
- Specially designed contacts without joint (fixed and moving) with silver plating to ensure sturdiness, negligible millivolt drop
- Specially designed handle and contact blades to perform better during short circuit
- Prevent malfunctioning under short circuit
- Dual guide to ensure larger life
- Optional auxiliary contacts for interlock
- Easily repairable at site
- All parts are manufactured on CNC machine to ensure consistency in quality.



Switch – Fuse Unit

Raychem RPG has developed 1.1 kV, 4P, 800A/1200A. The 1.1kV SFU is designed for indoor application and rated for 800A/1200A. It can be mounted on walls, structures and cable boxes.

Product Features

- Switch – Fuse Unit
- Raychem RPG has developed 1.1kV, 4P, 800A/1200A. The 1.1kV SFU is designed for indoor application and Rated for 800A/1200A. It can be mounted on walls, structures and cable boxes.
- Product Features :
- All current carrying parts are silver plated
- No separate neutral link required as 4th pole act as neutral link
- Quick-make, quick-break mechanism, independent of the speed of operator
- Specially designed Rosan nuts for fuse link fitment
- Fibre glass material used for better insulation protection
- Phase barriers for additional safety
- Single piece handle design & orientation of handle can be changed at any 4 corners
- Rubber stopper to reduce vibration during operation
- Easy to make connections (i.e. for Dropper arm, Flexible link)
- High current carrying capacity



Laminated Busbar

A laminated busbar consists of one or more flat electrical conductors laminated and electrically insulated by a thin dielectric material which is encapsulated or sealed along the edges. This laminated busbar has low lead inductance and saves installation spaces. It is widely applied in Power Electronics, Communication Systems, Transportation and such field to improve system performance and reduce cost

Features and Benefits

- Low Inductance
- Compact Structure, Space saving and able to control system temperature
- Minimal impedance and voltage drop
- High overload capacity
- Able to reduce the harm caused by peak voltage to components & extend the service life of electronic components
- Able to reduce noise and EMI/RFI radiation
- Easy for installation and onsite maintenance
- Fewer components for better system reliability
- Proportionally distributed capacitance
- Simplicity and beauty in appearance

Applications

- Power supply
- UPS System
- Inverter
- Wind/Photovoltaic Converter
- Motor Drives
- Lift/Elevator system
- Test Equipment
- Locomotive
- Electrical Vehicle
- High Speed Train



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