





# MEDIUM VOLTAGE SWITCHGEAR

#### - METAL CLAD SWITCHGEAR

#### \* Air Insulated Metal Clad MV Switchgear

- \* Withdrawable Air Insulated Metal Clad Switchgear
- \* Truck Type Air Insulated Metal Clad Switchgear

#### \* Gas Insulated Metal Clad MV Switchgear

- \* Fixed Type Vacuum or SF6 Gas Insulated
  - Circuit Breaker Metal Clad Switchgear

## - AIR INSULATED MODULAR METAL SWITCHGEAR

- \* SF6 Gas Insulated Circuit Breakers
- \* Vacuum Insulated Circuit Breakers

#### - SF6 GAS INSULATED RING MAIN UNITS(RMU)

- \* Compact Type (Non-Extensible) RMU
- \* Modular Type (Extensible Type) RMU

Content of Voltage Sv Medium V



# METAL CLAD MEDIUM VOLTAGE SWITCHGEAR



## GENERAL INFORMATION-

Metal Clad MV Switchgears can produce up to 36kV. They are especially designed for branch substations and power plants and equipped with the switching device mounted on a truck and metal cladded. Metal Clad Switchgears are presented with metallic unit compartments as well as a separate metal cladded compartment each for the vacuum circuit breaker truck, the bus-bars system, the cable compartment.

### TECHNICAL DATA

Rated Voltage (kV): Up to 36kV Rated Main Bus Current (A): Up to 3150A Rated Main Feeder Current (A): Up to 3150A Short Time Rated Withstand Current: 31.5 - 3sec Product Standard: IEC 62271-200 \*\* Metal Clad Switchgears can product with SF6 Gas Insulated or Vacuum Insulated Circuit Breakers according to the customer's request. \*\*\* Metal Clad Switchgears can product with Truck Type or Withdrawable Type according to the customer's

or Withdrawable Type according to the customer's request.

## APPLICATION-

- Power Plants
- Switching Stations
- Organized Industrial Zones
- Food, Paper and Textile Factories
- Hospitals
- Water Treatment plants
- Shopping Malls
- Water Pump Stations

#### ADVANTAGES

- Safe switching through sound and secure locking
- Superior ease to operate
- High strength in electric and mechanics
- Allows to expand due to the modular design
- Easy to install
- Easy transportation and storage
- Maximum security
- Easy to use



# Air Insulated Metal Clad MV Switchgear

Air Insulated Metal Clad Switchgears provide a high level of security against false mechanical and electrical locking and false manoeuvres. Air Insulated Metal Clad Switchgears save space with reduced dimensions. Sections are separated from each other by metal partitions. Front, side and rear access is possible.

Air Insulated Metal Clad Switchgears provide a high level of personnel and operational safety and operation and maintenance services.





# Gas Insulated Metal Clad MV Switchgear

Gas insulated switchgear is a medium voltage metal-clad gas insulated switchgear which applicated in outdoor and indoor 3 phase AC secondary power distribution system in utility and substations. Metal-clad switchgear is one of three common types of metal-enclosed switchgear.





# AIR INSULATED MODULAR TYPE (EXTENSIBLE TYPE) MEDIUM VOLTAGE SWITCHGEAR



## GENERAL INFORMATION-

Air Insulated Modular Type Medium Voltage Switchgear: A switchgear assembly completely enclosed on all sides and top with sheet metal (except for ventilating openings and inspection windows) containing primary power circuit switching or interrupting devices, or both, with buses and connections. This switchgear offers high personal and operating safety, optimal availability, secure engineering easy operation and high efficiency with low life cycle costs. Units are Modular Extensible Air insulated metal enclosed switchgear, designed for supplying sustainable energy, protecting electrical equipment in secondary distribution networks.

#### **TECHNICAL DATA**

Rated Voltage (kV): Up to 36kV Rated Main Bus Current (A): Up to 1250A Rated Main Feeder Current (A): Up to 1250A Short Time Rated Withstand Current: 25kA - 1sec Product Standard: IEC 62271-200

\*\* Air Insulated Modular Type Medium Voltage Switchgear can product with SF6 Gas Insulated or Vacuum Insulated Circuit Breakers according to the customer's request.

## APPLICATION-

- Medium Voltage Distribution Systems
- Power Plant (SPP,HPP,REPP,GPP)
- Infrastructure and Construction Sector
- Industrial plan

#### **ADVANTAGES**

- Easy installation and convenience for both sides due to modular design.
- The possibility of faulty opening / closing is eliminated by means of mechanical interlocks.
- The cubicles type cubicles are suitable for equipping equipment for remote monitoring and control.
- Reliable Switching in SF6 Gas
- Ease of Transport and Storage
- Different Feeder Combinations According to Customer's Request



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# SF6 GAS INSULATED RING MAIN UNITS(RMU)



# GENERAL INFORMATION—

In an electrical power distribution system, a ring main unit (RMU) is a factory-assembled, metal-enclosed set of switchgear used at the load connection points of a ring-type distribution network. It includes in one unit two switches that can connect the load to either or both main conductors, and a fusible switch or circuit breaker and switch that feed a distribution transformer. The metal-enclosed unit connects to the transformer either through a bus throat of standardized dimensions, or else through cables and is usually installed outdoors.

### **TECHNICAL DATA**

Rated Voltage (kV): Up to 38.5kV\* Rated Main Bus Current (A): Up to 2500A Rated Main Feeder Current (A): Up to 2500A Short Time Rated Withstand Current: 25kA - 1sec Product Standard: IEC 62271-200 \* 38.5kV Power Range can product according to the customers request. \*\* SF6 Gas Insulated Ring Main Units can product with SF6 Gas Insulated or Vacuum Insulated Circuit Breakers

according to the customer's request.

#### APPLICATION-

- Public Distribution
- Infrastructures
- Industrial (Small Industries etc.)
- Wind Power Plants
- Solar Power Plants
- Compact Secondary Substations
- Hotels, Office Buildings, Residential Housing Complex, Shopping Centers, Business Centers, Hospitals, Airports etc.

# ADVANTAGES

- Less Maintenance
- High Safety
- Feature-Rich Compact Designs
- Less Space Occupy
- Smart Capabilities



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# Compact(Non-Extensible) Type RMU

Compact models are standardized packages, built by taking the most common configurations used in worldwide applications into consideration. These units with very compact dimensions combine all medium voltage functional system units like disconnector switches, load break switches and circuit breakers to enable supply, connection and protection of line feeders and transformers on a network.





1000

1000



# Modular(Extensible)Type RMU

Extensible models offer more flexibility to the customer, giving the opportunity to add new panels to the package as their facility requires in time. These units with very compact dimensions combine all medium voltage functional system units like disconnector switches, load break switches and circuit breakers to enable supply, connection and protection of line feeders and transformers on a network.



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