



www.bhartiengineers.com
www.bhartiservo.com

RELIABLE &
ENERGY EFFICIENT
POWER SOLUTION

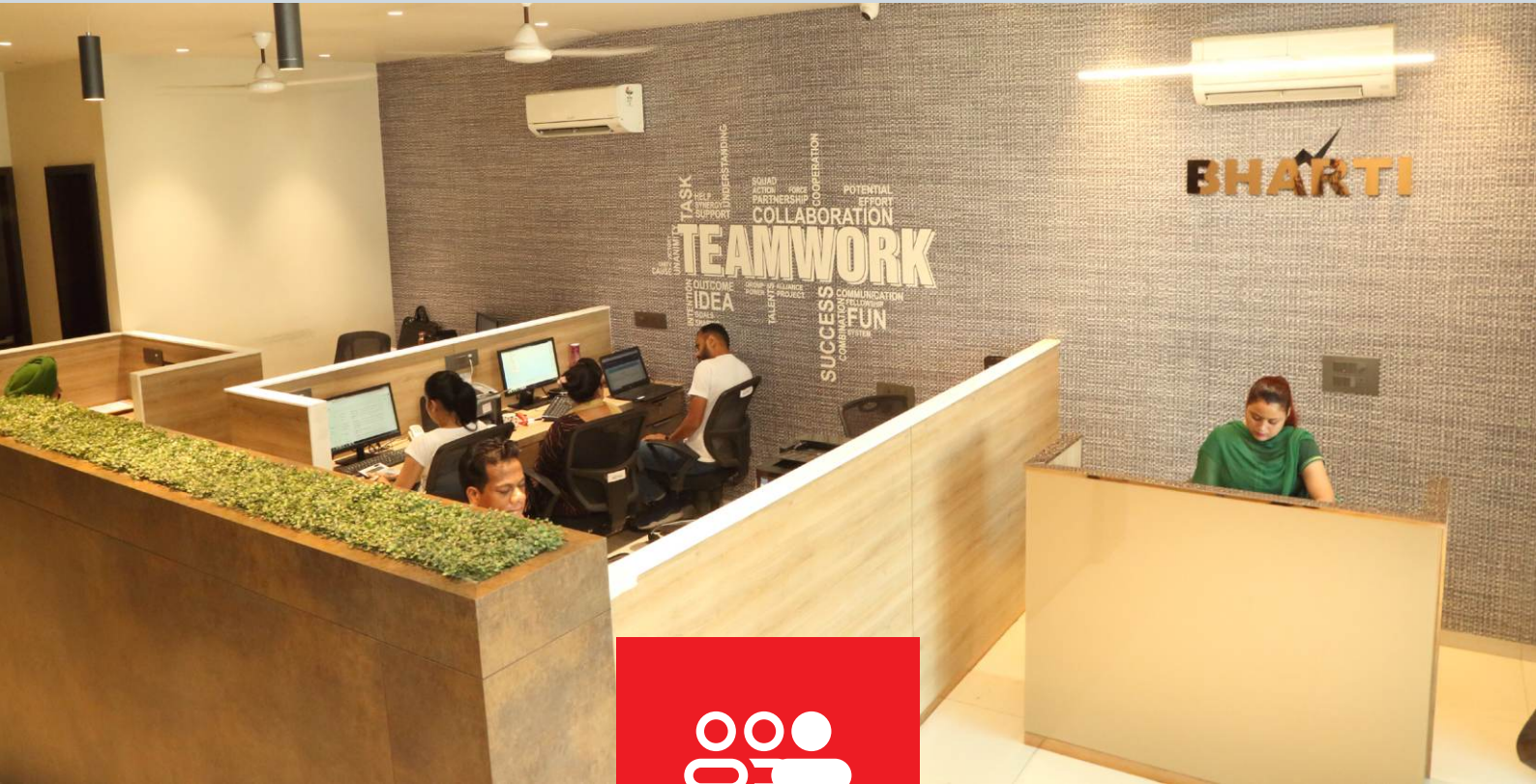


BHARTI®

... Correct voltage fluctuation before it damages your Hi-Tech Machines

Manufactures & Supplier of
HT Servo Voltage Stabilizer | Automatic Voltage Stabilizer | Distribution Transformer
Dry Type Transformer | Isolation Transformer | Electroplating Rectifier
Transformer with OLTC | Compact Sub Station (CSS)





About us

BHARTI, one of the leading quality manufactures of wide range of electroplating Rectifiers, Servo Stabilizers, Automatic Voltage Controller, Voltage regulator, Isolation Transformer, Furnace Transformer, Electrical Panel, Distribution and Power Transformer & Special Purpose Transformers designed & manufactured by highly trained engineers.

The name trusted all over India since 1981. This trust is built over Shear dedication, hard work & Commitment to quality. The learning acquired over 40 years has been harnessed to offer superior quality product at competitive price.

Being an ISO 9001:2015, certified company, our product is manufactured as per ISO Standards. Today with more than 2 decade of experience in the manufacturing of Electrical products, Bharti has grown up in geographical range to become one of the leading manufactures of Electrical products. Our product comprehensively fulfilled the request of national & international standards specification & their stringent requirement. We manufacture each our Equipment under one roof to achieve better quality. We strive to maintain the quality & uniqueness of our product, keeping our price low & deliver it on a schedule. Our effect has been awarded with repeat orders from private & public sectors, Big Industries, Educational Institutes & Big MNC.



Quality Policy

“Bharti is committed to provide optimum quality in a timely and cost effective manner with care to society & environment & ensure continual improvement in its product, process, systems and customer satisfaction by meeting the expectation.”



Infrastructure

We have our own state of art manufacture unit located at Ludhiana (Pb.) India. Our Company has a very sound state of the art infrastructure & skilled manpower in following departments.

- Production
- Testing & Quality Control
- Design & development
- After Sale Service.



Why Us?

- Best Quality Electrical equipment
- Managed by qualified team of professionals
- State of the art infrastructure and manufacturing facility
- Excellent after Sales Service
- Customer centric and quality oriented approach
- Delivery within stipulate time frame
- Immense industrial experience and expertise



After Sales Service

- Continuously upgrading technology to enhance quality and cost competitiveness of our products
- Ensure on-time delivery of the products to the customers.
- Regular feedback and interactions with our valued customers to satisfied them
- We maintain a safe and clean workplace to the employees and enhance their level of motivation
- Enhance knowledge and skill of employees at all levels through continuous training and development

AUTOMATIC SERVO VOLTAGE STABILIZER

**Capacity:
30KVA to 6000 KVA**

Salient Feature:

- Reduction in breakdown of electrical equipments.
- Energy Saving
- Improvement in Power Factor & MDI
- Improved Power Quality & Stable Supply System
- Depreciation @ 80% as per Income Tax (in India Only)



Comparison between Bharti's make and conventional make Automatic Servo Voltage Controller

Bharti's Make	Conventional Make
Linear type regulators, wound with min. 24 mm ² copper strips.	Torroidal Dimmers are used, wound with max. 100 mm ² cooper wire.
Power consumption is 0.5-1.5% depends upon capacity and voltage variation.	Power consumption is 5-8% depends upon capacity.
Overall efficiency is more than 99%.	Overall efficiency is 92-95%.
Life at full load is 20-30 years .	Life at full load is 4-6 years.
Suitable for 100% continuous duty cycle.	Suitable for 60-80% duty cycle
Graphite carbon roller assemblies are used. Which do not require replacement for at least 8-10 years. There is no wear & tear of the bared copper track.	Light duty carbon brushes are used which are in full contact with the winding. Wear & tear requires change of brushes periodically.
5 years warranty in India	Normal Guarantee/Warrentee of 1 year



**AUTOMATIC
SERVO VOLTAGE
STABILIZER
BALANCED TYPE**

**Capacity:
2500 KVA**

**AUTOMATIC
SERVO VOLTAGE
STABILIZER
UNBALANCED**

**Capacity:
1500 KVA**



SERVO VOLTAGE STABILIZER (UNBALANCED TYPE)



SERVO VOLTAGE STABILIZER (BALANCE TYPE)

SERVO VOLTAGE STABILIZER (BALANCED TYPE)

Capacity: 3500 KVA

General Specification:

Bharti's Automatic Servo Stabilizer are available in wide range and various models. The standard three phase models are suitable for balanced and unbalanced supply and loads. The standard model confirm the following specifications are as follow:



Input Voltage	:	300-460V 320-460V 340-460V 350-460V.
Efficiency	:	Better than 99%
Output Voltage	:	400V/415V +/- 1%. 3 Phase, 50 Hz
Ambient Environment	:	0-35 °C max relative humidity upto 90%.
Wave from distortion	:	Designed for Indoor tropical use.
Duty Cycle	:	Virtually Nil.
Correction Rate	:	100% Continuous.
Mounting	:	10-20V/Sec. (or as per your req.)
Cooling	:	On Uni-directional wheels.
	:	Air Cooled/Natural



Special Servo Stabilizer for Residential & Commercial

Note: Different Non-Standard input & output ranges are also available against specific requirement.

BHARTI[®]
AN ISO 9001:2015 CERTIFIED CO.

DISTRIBUTION AND POWER TRANSFORMER

Bharti's Power And Distribution Transformer Are Manufactured With A Standard Rating And Customer Requirements. All Transformers Are Designed For Continuous Operation With Maximum Efficiency To Confirming IS 1180 Standards. Transformers Are Designed & Tested As Per Indian & International Standards To Meet Specific Requirements Of Our Customers . Our Manufacturing Facility Governed By Stringent Quality, Assurance Check During Different Manufacturing Stages, To Manufacturing Power & Distribution Transformer.



Introduction:

Bharti's Distribution And Power Transformers Being The Most Important Element In Any Industrial/Commercial Unit, At Bharti Our Main Aim Is To Provide Superior Quality Maintenance, Design And Tested As Per The Latest Highest Standard, To Assure The Same We Are Maintaining Our Design And Development Team Having Highly Qualify And Experienced Personal To Prissily Keep Eye On Design Part In Cooperated With A State Of Art Testing Lab Transformer Is Manufactured With Standard Rating & Customer Requirement,

Product Range of Distribution & Power Transformer:

- Power Transformer-Up To 10 MVA 66 Class
- Distribution Transformer Upto 6000kva 11/33kv
- Transformer With Oltc Up To 6000kva 11/33kv
- Distribution Transformer With Built-In Htavr Upto 4000kva 11kv
- Earthing Transformer Upto 6000kv 11/33kv
- Generator Transformer Upto 4000kva 11kv

Transformer Design Options:

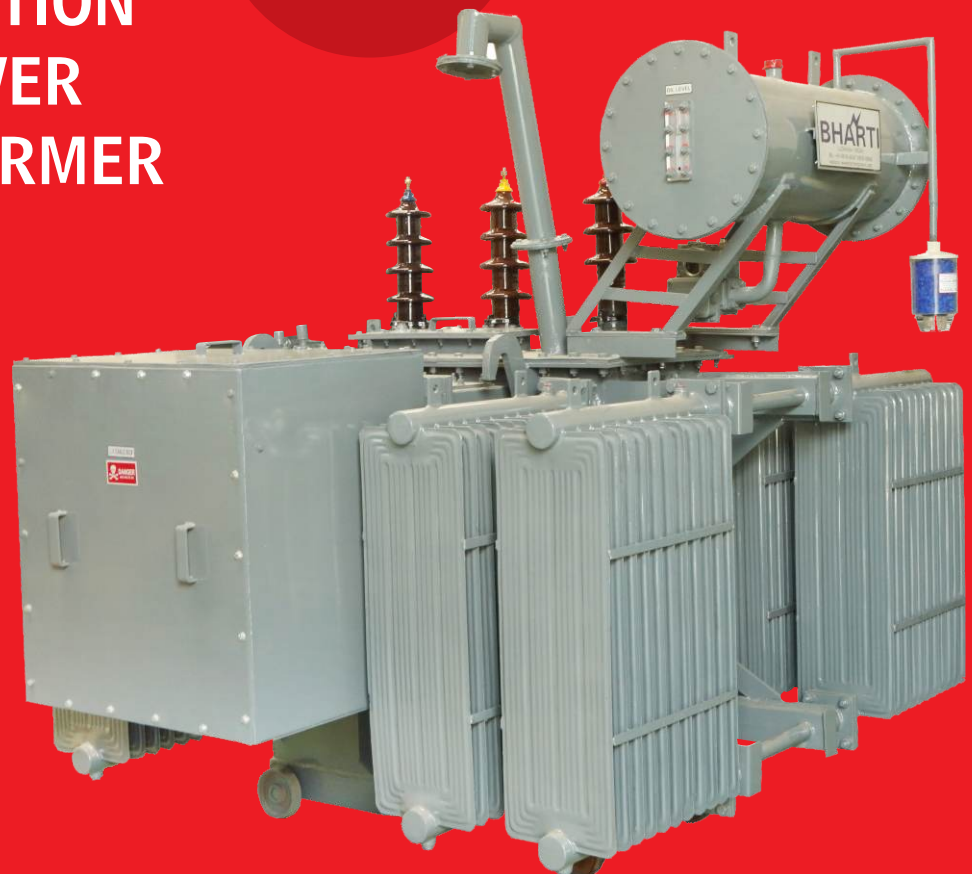
- Single Phase / Three Phase
- Pole Mounted / Ground Mounted
- Offload Tap Changer / On Load Tap Changer (OLTC)
- Step Up & Step Down Transformers
- Indoor | Outdoor
- Conventional Type / Hermetical Fealed Type
- Fitting Accessories As Per Requirement

DISTRIBUTION AND POWER TRANSFORMER

Capacity:
1000 KVA
Ratio:
33/433 KV

Hermetically
Sealed Corrugate
Type
(For Export Purpose)

DISTRIBUTION AND POWER TRANSFORMER



DISTRIBUTION AND POWER TRANSFORMER

Capacity:
630 KVA

Ratio:
22/433 KV

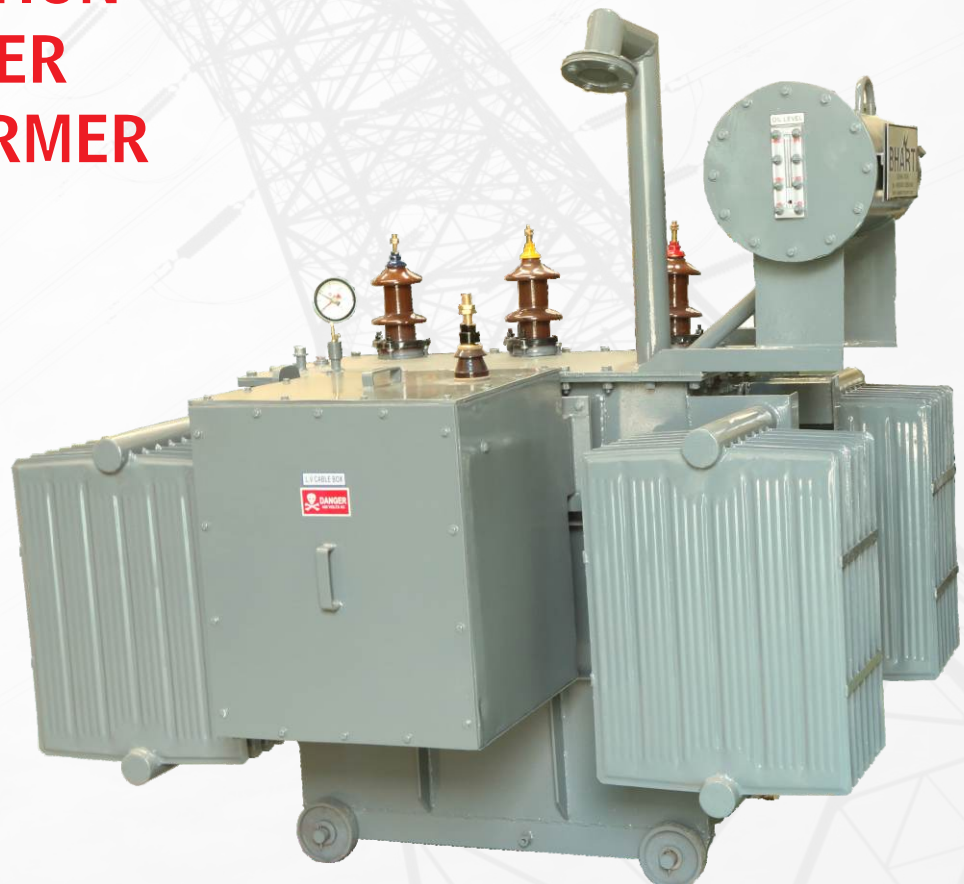
Hermetically
Sealed Corrugate
Type
(For Export Purpose)



DISTRIBUTION AND POWER TRANSFORMER

Capacity:
630 KVA

Ratio:
11/433



DISTRIBUTION TRANSFORMER WITH OLTC (INDOOR TYPE)



Standard Fitting

- Rating And Diagram Plate.
- Earthing Terminals – 2 Nos.
- Lifting Lugs.
- Oil Level Indicator (Plain)
- Drain-Cum Bottom Filter Valve With Plug.
- Oil Filling Hole With The Plug On Conservator.
- Oil Conservator With A Drain Plug.
- Air Release Plug.
- Silicagel Air Breather.
- Bi-Directional Flat Rollers.
- HV Terminals-Outdoor Bushings.
- LV Terminals-Outdoor Bushings.
- Radiators.
- Filter Valve With Plug.
- Thermometer Pocket.
- Oil Temperature Indicator.
- Externally Operated Off Circuit Tap Changing Switch.
- Explosion Vent.
- Sampling Valve (For 2000 KVA & Above Transformers Only)

Accessories on Request

- LV And HV Cable Boxes
- Winding Temperature Indicator (WTI).
- Buchholz Relay
- Magnetic Oil Level Gauge
- Marshaling Box
- Disconnecting Chamber
- Oil Temperature Indicator With Electrical Contacts (OTI)
- Pressure Relief Valve

After Sales Service:

Every Equipment Sold Is Backed By Our Excellent & Prompt Service Network. Our Organization Is Well Known By Virtue Of Strong Support In Terms Of Pre-Sale & After Sales Rendered By Us During Any Solutions.

ELECTROPLATING RECTIFIER

Bharti's Rectifier equipment are wound with Electrolytic Prime Grade Copper Strip to minimize power losses, in comparison to aluminum conductor used by many other manufacturers. Our equipments are designed liberally as per capacity and are ideally suitable for marginal overloading conditions.

We use vertical rolling contact type voltage regulator winds with heavy sections of copper strips suitable for 100% continuous duty cycle or industrial applications, in comparison to conventional wire wound regulators used by other manufacturers, the carbon rollers move on both sides of the winding.

Category: Electroplating Rectifier



Introduction:

The Rectifier Is A Device To Change High Voltage A.C To Low Voltage D.C Used For Different Industrial Application Rectifier Are Available In The Range Varying From 1 Volt To 1000 Volt D.C With Current Output Varying From 10 Amp To 20000 Amp Which Is Suitable For Both H.T & L.T Supply.

BHARTI'S Rectifier Equipment Is Wound With Electrolytic Prime Grade Copper Strip To Minimize Power Losses, In Comparison To Aluminum Conductor Used By Many Other Manufacturers. Our Equipment Is Designed Liberally As Per Capacity And Is Ideally Suitable For Marginal Overloading Conditions.

We Use Vertical Rolling Contact Type Voltage Regulator Wounds With Heavy Sections Of Copper Strips Suitable For 100% Continuous Duty Cycle Or Industrial Applications, In Comparison To Conventional Wire-Wound Regulators Used By Other Manufacturers. The Carbon Rollers Move On Both Sides Of The Winding.



It is used for:

- Electro Plating
- Anodizing
- Hydrogenation
- Cleansing
- Electro-Chemical Processes

Salient Feature:

- Asthetic Design
- Minimum Power Losses
- Less Power Consumption
- Low Maintenance
- Trouble Free Operation
- Long Life



Inner View

ROLLER

- No waveform distortion at any load
- High power factors of more than 0.95 is achieved
- The system is simple & can be easily repaired
- Overall losses are less
- The copper section for a particular current is 3 times higher in roller regulators than in conventional

CONVENTIONAL

- Waveform distortion
- Power Factor is low between 0.5-0.9
- The system is specialized & need specially trained experts for repairing.
- Overall losses are higher
- Copper section for particular current is 1/3 than roller regulator type rectifier.

H.T. TRANSFORMER WITH BUILT-IN AUTOMATIC VOLTAGE STABILIZER (COMBO)

BHARTI'S Make Transformers With Built-In Rolling Contact Type AVR Suitable For Indoor/Outdoor Installation, Copper Wound HT Two-In-One System Is A Revolutionary Landmark In The Industry When It Comes To Voltage Regulation And Stabilization.

Category: ht servo voltage stabilizer



Introduction:

BHARTI'S Make Transformers With Built-In Rolling Contact Type AVR Suitable For Indoor/Outdoor Installation, Copper Wound HT Two-In-One System Is A Revolutionary Landmark In The Industry When It Comes To Voltage Regulation And Stabilization. Even After The Installation Of A Standard Distribution Transformer The Problem Of Low/High Voltage On The LT Side Persists, Resulting In Improper Operation Of The Electrical Equipment, Premature Failure & Production Loss Of A Plant. The Standard Off – Circuit Tapping Of Transformers Can Correct Limited Voltage Variation And Cannot Regulate The Voltage While In 'On Load' Conditions. We Have Developed State Of The Art Technology Two-In-One System With Transformers Having Built-In HT Automatic Voltage Regulator That Operates On Load, Sleeplessly & Gives Stabilized Voltage On The LT Side. The Equipment Is Basically A Combination Of HT AVR With A Standard Distribution Transformer.

Supported By Modern Infrastructure With All The Necessary Facilities, Our Company Is Counted Amongst The Pioneer Manufacturers And Exporters Of The HT Voltage Controller. Our Expert Procuring Agent Procures Tested Quality Materials & Components From Reliable Vendor Base For Manufacturing These Voltage Controllers In Compliance With Industrial Standards. Suitable For Preventing The Transformer From Getting Overloaded, These Voltage Controllers Are Used To Get Stable Input Voltage For Individual Distribution Transformer. Clients Can Get HT Voltage Controller From Us Without Any Delay.

HT Automatic Voltage Controller Regardless Of Low / High Voltage Being Received From The Electricity Authority. It Is Placed On The Input Side Of The Transformers. Our H.T. Automatic Voltage Stabilizer Manages A Broad Voltage Variation Ranges, Watchfully And In On Load Condition, Directing To Complete Utilization Of Load Of The Transformer, Installed.

Features:

- Reliable Performance
- High Efficiency & Safety
- Strong & Compact Construction
- Space Saving
- Low Cost
- Less Power Losses
- Sturdy Construction & Reliability
- Good Weather Resistance.

DRY TYPE TRANSFORMER

BHARTI Manufacture Ventilated Dry Type Transformer Is Totally Maintenance-Free And Safe From Fire As A Material Used Are Metals, Ceramics, Fiberglass, And Resin It Is Environment-Friendly As There Is No Oil, Hence Handling Becomes Easier And There Are No Chances Of Spillages And Leakages And There Is Minimal Non-Toxic Smoke In Case Of Fire.

BHARTI Offers Ventilated Dry Type Transformers With Class H/E Insulation Which Can Bear Heat Up To 180/220 Degree C And Can Be Used In A Humid And Chemically Polluted Atmosphere.

Category: DRY TYPE TRANSFORMER

BHARTI[®]
AN ISO 9001:2015 CERTIFIED CO.



Introduction:

In View Of The Requirement Of The Indian Industry, We Have Introduced Cast Resin (Dry Type) Transformers. This Introduction Supplements Our Existing Product Viz. Vacuum Resin Impregnated Dry Type Transformers. Dry Type Transformers Of Both The Above Varieties Are In Use.

Product Range:

50 KVA To 5000 KVA, 11 KV & 33 KV Class Suitable For Indoor Applications With Off Circuit Tap Changer And On-Load Tap Changer Switches Available As Per Customer Requirement.

Advantages

- High Level Of Safety
- No Flammable Liquids
- No Pollution From Leaks Solution
- Can Be Placed Close To The Load
- More Efficient
- Increased Emergency Overload Capability
- Improved Reliability
- Low Noise And Low Maintenance
- Easy To Repair (Open Coils)



ISOLATION TRANSFORMER

Isolation transformers are being used to protect electronic & sensitive creative equipment such as Computer & Peripherals Medical Instruments, Digital Machines & CNC M/C from the excessive line voltage transient, spikes/surges which produced in the system. Apart from this, Isolation Transformer also obstructs those disturbances that are generated by the noisy equipment from being injected into the power line i.e. It filters common-mode noise usually an attenuation of approx. 30 Db.

Category: Isolation Transformer



Application of isolation transformer

- Protection of microprocessor-based machines from damage & data loss
- Where the ground of equipment cannot be earthen
- When no current leakage is permitted in equipment
- When protection is needed against high-frequency line losses & strong surges.

ELECTRICAL PANEL



An MDB is a panel or enclosure that houses the Fuses, Circuit Breakers and Ground Leakage protection units where the electrical energy, which is used to distribute electrical power to numerous individual circuits or consumer points, is taken in from the transformer or an upstream panel. An mdb typically has single or multiple incoming power sources and includes main circuit breakers and residual current or earth leakage protection devices.

Category: Electrical Panel

PACKAGE SUBSTATION

The Compact Sub-Station (CSS) is also known as Unitized Sub-Station (USS) or Packaged Sub-Station (PSS). The compact sub-station is a compact arrangement, which replaces conventional sub-station arrangement consisting of load break switch / vacuum circuit breaker, transformer, distribution panel with L.V. Switchgear lightening arresters mounted on a pole structure or on a platform.

Category: Package Substation

Introduction:

Bharti manufactures various modules of indoor/outdoor type Compact Sub-Stations up to 2500 KVA capacity, 33KV class of Transformers with HT/LT switch gear.

The Compact Sub-Station (CSS) is also known as Unitized Sub-Station (USS) or Packaged Sub-Station (PSS). The Compact Sub-Station is a compact arrangement, which replaces conventional sub-station arrangement consisting of load break switch / vacuum circuit breaker, transformer, distribution panel, lightening arresters mounted on a pole structure or on a platform.

CSS is designed, keeping in mind the personal safety & aesthetics, considering ht equipment is located in high-density urban places. It is a prefabricated secondary Sub-Station consisting of three compartments (i.e.) H.V. compartment which houses Vacuum Circuit Breaker (VCB) or Load Break Switch (LBS), the Transformer Compartment which houses Dry Type /Oil-Cooled Transformers & the LV Compartment which houses ACB, MCCB, SFU, etc. As per client's requirement. All components are housed in an enclosure that protects the equipment against environmental hazards & unauthorized access. The electrical equipment are cooled by natural ventilation.

Features:

- Fully compartmentalized design
- Easy to install, operate & require very less maintenance
- Cost effective & space saving
- Reduced electrical losses as CSS can be installed near the load centre
- A high degree of safety & operational reliability is achieved by HT & LT Switchgear with protective relays
- Reduction in Logistic Cost as the CSS is delivered as a single unit
- Tailored configuration to meet customer requirement
- Due to the enclosed construction, it avoids bird hit, human / animal contact which may lead to fatal accident and disruption of power supply
- Aesthetically enhanced look & designed to suit the site topography, which gives pleasing appearance
- No separate room is required
- Can be installed indoor & outdoor
- Standard Fitting
- Load Break Switch with Fuse Trip & Earth Switch Mechanism, Shunt Trip Coil, HT HRC Fuses
- Vacuum circuit breaker with metering & protection using current/potential transformers & relays
- Ring main units consists of load break switches/vacuum circuit breakers combination
- Oil filled transformer
- Dry Type transformer
- LT Control Panel with ACB & MCCB
- SFU with metering
- CSS are ideally suited for residential and commercial complexes as it can be placed on ground floor or basement or rooftop of the high rise buildings
- Mainly used by power utilities, multiplex, hotels, hospitals, shopping malls, software parks, airports & residential complexes, etc.

BHARTI[®]
AN ISO 9001:2015 CERTIFIED CO.



Our Clients



Our Clients



Industry we serve in



Rice Industry



Food & Beverages



Tea Industry



Seed Industry



Paper Industry



Printing Press



Water Treatment Plant



Jute & Textile



Pharma Industry



PVC Pipe Extruder Plant



Aluminum Extrusion Plant



Plastic Multi Layers Extrusion



Cold Rolling Mills (Steel Sector)



Cement Industry

Our Branch Office

We have empowered our selves power and integrator sales and service network in the nation wide to provide value added products and services to our clients.



BHARTI ENGINEERS

AN ISO 9001:2015 CERTIFIED CO.

D-214, Phase-VII, Focal Point, Ludhiana - 10 (Punjab) India

Mobile: +91-98145-08347, 98550-98940, 98153-94940

E-mail: sales@bhartiengineers.com,

Website: www.bhartiengineers.com

Grain-E-Media : 99885-58019

