CML No. 9512429717

DYNAMIC

Engineering Intelligent Solutions

- Power & Distribution Transformers
- HT / LT Servo Voltage Stabilizers
- Rectifier Equipment

DYNAMIC ENERGY SOLUTIONS

(An ISO 9001:2015 Certified Company)

Introduction

Dynamic Energy Solutions is an ISO 9001: 2015 certified, fastest growing company in the field of Electrical Equipments manufacturing Distribution Transformers, HT & LT Rolling Contact Type Servo Voltage Stabilizers, Distribution Transformer with Built in HT Servo Voltage Stabilizer, Rectifier Equipments (for Electroplating, Anodizing and all other Electrochemical processes) and other special purpose Industrial Transformers.

Dynamic Energy Solutions is a professionally managed company headed by a person who has a more than 35 years of face value in the market (with a clean track record of transparency, honesty and completely dedicated to serve his clients) and has a fully equipped design wing headed by a competent Design Engineer having experience of over 25 years and hence we are in a position to provide cost effective solution to individual customer's specific requirement.
We boast of a highly experienced team with an average experience of minimum 15-20 years in this particular field.

What We Do :

Designing (specific to customer's requirement), Manufacturing, Testing and Supplying of :-
Power / Distribution Transformers with OCTC as well as with OLTC
Corrugated Distribution Transformers
Inverter Duty Transformers
Dual Input Distribution Transformers
Dry type Distribution Transformer (11KV Class)
Distribution Transformers with Built in HT AVR
HT & LT Servo Voltage Stabilizers
Rectifier Equipment for Electroplating, Anodizing, ED Coating and other Electrochemical processes
Furnace Transformers
Isolation Transformers
Special Purpose Transformers

Why Dynamic make Equipment only :

Expertise in catering to special technical requirement of customers
Always looking for challenging jobs
Robust Designs
Well laid out manufacturing process and bought out items of international brand
Consistent product quality which comes through comprehensive quality checks at all the stages
All products are highly efficient
Prompt after sales service and quick remedial action on the basis of feedback from the client
Total Customer Satisfaction
Our every satisfied customer is our mktg/sales person. Majority of our orders are repeated or recommended by our esteemed clients.

Recognition

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DYNAMIC'S OIL COOLED DISTRIBUTION TRANSFORMERS

Dynamic covers a wide range of Oil Cooled Distribution Transformers with Off Circuit Tap Changer as well as with On load Tap Changer (upto 12.5 MVA capacity in 11KV, 22KV & 33KV class).

Magnetic Circuit of the Transformer is made by assembling high grade Cold Rolled Grain Oriented Silicon laminations having high permeability and low hysteresis loss.

HV and LV windings are made in shape of coils, perfectly circular, with electrolytic grade Copper / Aluminum conductor (as per client's demand). These coils are dried and pressed to pre-determined stack heights , assembled concentrically on the core and magnetically balanced with respect to each other, thus minimizing mechanical stresses.

Core & Coil Assembly is clamped by clamping structure and is dried for a specified heating cycle, under controlled temperature to drive away any moisture. After drying, the assembly is put inside the prefabricated tank, clamped and filled with filtered, dehydrated Transformer Oil. All electrical connections are made and complete set of fillets and required accessories are fitted. The Transformer after painting becomes ready for testing.

5000 KVA 33KV / 415V with OLTC
Type Tested by: NABL Lab.

STANDARD FITTINGS

- RATING & DIAGRAM PLATE
- EARTHING TERMINALS
- LIFTING LUGS
- OIL LEVEL INDICATOR
- PRESSED STEEL RADIATORS
- DRAIN CUM BOTTOM FILTER VALVE
- OIL CONSERVATOR WITH DRAIN PLUG
- OIL FILLING HOLE WITH PLUG ON CONSERVATOR
- DOUBLE DIAPHRAGM EXPLOSION VENT
- PRESSURE RELIEF VALVE
- AIR RELEASE PLUG
- SILICA GEL BREATHER
- UNI/BI-DIRECTIONAL ROLLERS
- EXTERNALLY OPERATED OFF CIRCUIT TAP CHANGING SWITCH
- FIRST FILLING OIL

OPTIONAL FEATURES :

- OIL TEMPERATURE INDICATOR WITH ALARM & TRIP CONTACTS
- WINDING TEMPERATURE INDICATOR WITH ALARM & TRIP CONTACTS
- BUCHHOLZ RELAY WITH ALARM & TRIP CONTACTS
- LV AND /OR HV CABLE BOX
- PRESSURE RELIEF VALVE WITH TRIP CONTACT
- MAGNETIC OIL LEVEL GAUGE WITH ALARM CONTACT
- MARSHALLING BOX
- ON LOAD TAP CHANGER (OLTC)
- RTCC PANEL
- BUS DUCT CHAMBER ON LV SIDE
- DISCONNECTING CHAMBER ON HV SIDE
- JACKING PADS & PULLING EYES

All the accessories shown are not the necessary part of standard equipment.

Distribution Transformer with OCTC

Dynamic's all Distribution Transformers (100 KVA and above) are provided with Off Circuit Tap Changer (until the customer refuses specifically for it). As the word speaks itself - Off Circuit Tap Changer: the tap change may be carried out only when the Transformer is de-energized. The tapping range may be +5% to -5% / +5% to -10% / +7.5% to -7,5% as per customer's requirement.

Corrugated Distribution Transformer

The Corrugated fins are made out of special cold rolled MS coil and are directly welded to form the transformer tank. These fins have sufficient degree of elasticity to absorb expansion in volume of Transformer Oil and it also provided as large surface area to dissipate the heat generated.

Transformers with corrugated tanks are commonly used in Compact Sub Stations where space optimization is required, because these Transformers have a more compact footprint than traditional models.

Inverter Duty Solar Transformer

Inverter Duty transformers are used in Solar Application. In Solar Plants, Inverters convert DC Supply to AC Supply at a lower voltage. These Transformers are used to step up the lower voltage to higher voltage for further transmission. Dynamic also offers Transformers with multiple primary windings enabling the user to connect it to multiple inverters. Electrostatic shield between primary and secondary winding is provided to reduce harmonics. These Transformers can be with OCTC or with OLTC as per customer's requirement.

Dual Input (33V-11KV) Distribution Transformer

At many places, it was observed that at the time of installation of Transformer, the consumers are getting 11KV supply and in near future , they will have to switch over to 33 KV supply. In these cases, Dynamic offers Distribution Transformer which can be operated on 11KV and as well as 33 KV supply (with help of change over switch provided in the Transformer) and the consumer will not have to invest again on the Transformer after few years of use.

All the accessories shown are not the necessary part of standard equipment.

DRY TYPE DISTRIBUTION TRANSFORMER

Dynamic's VPI Dry Type Transformers are vacuum pressure impregnated with a high temperature polyester varnish. The process includes complete submersion in varnish under vacuum and pressure and regulated curing through PLC controlled equipment to ensure consistency. The finished coils are effectively protected against moisture, dirt and most industrial contaminants.

High Class H rated insulation products such as Nomex, Kapton and Glass Tape etc are used for the insulating materials . The design and construction of the windings together with the VPI treatment of the winding ensures that it is electrically sound as well as mechanically strong resulting in reduction of risk of explosion or danger of fire. The consumers prefer these Transformers for use in Basements or Stilts of High Rise Buildings, Hospitals, Hotels and Shopping Malls etc .

Dynamic's Dry Transformers are enclosed in sheet steel enclosure and are totally maintenance free. These are Eco friendly Transformers - there is no oil used in it, hence no chances of oil leakage or spillage.

These Transformers are pocket friendly too apart from being Eco friendly as the windings in these VPI Transformers can be removed and repaired which is not feasible in case of Cast Resin Transformers.

Dynamic's manufacturing range of Dry Type Transformers is up to 2500 KVA rating & 11KV class With Off Circuit Tap Links (OCTL) as well as On Load Tap Changer (OLTC)

Internal View of Dry Type Transformer

All the accessories shown are not the necessary part of standard equipment.

ROLLING CONTACT TYPE SERVO VOLTAGE STABILIZERS

Dynamic's LT Servo Voltage Stabilizers are auto wound Transformers having Helical Coils made out of Copper Strip, mounted on a conventional Laminated core (whereas most of the manufacturers in the market use wire wound coils on toroidal core called variac).

Carbon Rollers assembled on a fibre glass carrier board traverse the length of the coil, (whereas in variac type stabilizers, ordinary carbon brushes are used which slide on the wire wound coils, while correcting the voltage resulting in more wear and tear).

These rollers are connected to the output terminals and as they are driven over the track, a variable voltage is obtained.

The variation of more than ±1% of the rated output voltage is sensed through Microprocessor Based Controller which sends signals to the Servo Motor which further drives the Rollers upward or downward, so as to increase or decrease the voltage to the required level.

Industrial Servo Voltage Stabilizer

Disadvantages Of Fluctuating Voltage:

1. High Electricity Consumption
2. Low Power factor since capacitor banks installed by the consumers fail to compensate the reactive power at desired level. Therefore, consumers are penalized to pay penalties, even without utilizing the power.
3. Frequent breakdowns in manufacturing equipment like CNC machines, Motors etc due to high or low voltage.
4. Loss of production
5. Increase in rejection of finished products
6. Increase in diesel consumption as the consumer has to switch over to costlier DG Power Supply due to low / high voltage or some breakdown in the machines
7. Reduces the life of equipment drastically.

Advantages Of Dynamic's Servo Voltage Stabilizers :

1. Reduction in breakdown of Electrical Equipment between 60-80% depending upon the input voltage fluctuation and working hours of plant.
2. Reduction in MDI
3. Energy Saving between 10% to 30% depending upon the input voltage variation and working hour of plant.
4. Improvement in Power Factor.
5. Uniform quality of End Product
6. Less Breakdown in plant resulting in increased productivity.

Domestic Servo Voltage Stabilizer

All the accessories shown are not the necessary part of standard equipment.

Applications

1. Engineering Industries
2. Cold Storage Units
3. Plastic Moulding Industries
4. Flour Mills
5. Tube Mills
6. Paper Mills
7. Cement Plants
8. Pharmaceutical Unit
9. Rolling Mills
10. Textile Industries
11. Footwear & Leather Units
12. Rubber Mills
13. Rice Mills
14. Food Processing Units
15. Hospitals
16. Hotels
17. IT Companies
18. Educational Institutes
19. High Rise Buildings
20. Malls & Multiplex
21. Residential Use

Internal View of Regulator

This Roller type Technology along with use of heavy section Copper strip, results into very high efficiency of the Stabilizer to the tune of 98% to 99.5% depending upon the input Voltage Range and negligible maintenance.

Pay Back Period

Dynamic's Automatic Voltage Stabilizer, in addition to protecting your costly equipments from High/Low Voltage, also saves energy upto 30% (depending upon several factors). It also reduces the breakdowns in the plant resulting in continuity of production with uniform quality of end product.

Because of its high efficiency and other advatnges, the payback period for the cost of Stabilizer is generally 12 months to 24 months depending upon the nature and duration of load and input voltage fluactuation range.

Salient Features:

1. Stepless on load Rolling Contact Type Regulator
2. Designed for 100% Continuous Duty Cycle
3. No Waveform Distortion
4. Very High Efficiency
5. Negligible maintenance
6. Dimensions can be customized as per available space.

Internal view of Servo Voltage Stabilizer

All the accessories shown are not the necessary part of standard equipment.

HT AUTOMATIC VOLTAGE STABILIZER

(Also known as HT AVR)

As the name speaks itself , these stabilizers are used to stabilize the voltage on 11KV or 22KV or 33KV side itself i.e. before distribution transformer.

The fluctuating HT Voltage received from electricity authority is stabilized by the HT Stabilizer with accuracy of ±1% and then fed to the transformer resulting in the stabilized LT Output within ±1% accuracy.

Many People remain under the fear that stabilizing voltage on HT Side is dangerous and requires more maintenance and highly skilled technician is required to do preventive maintenance of the same, but this is not true at all.

Rolling Contact type Regulator used is the same as used in LT Stabilizer. Servo Motor and Microprocessor based controller are also same as in case of LT Servo Voltage Stabilizers.

Working Principle of Voltage Stabilization on H.T. Side : Dynamic's On Load Voltage Regulator

Dynamic's On Load Stepless Automatic Voltage Regulator works with the principle of auto transformer, tapped continuously by means of rolling contact mechanism moved by servo motor (which receives signal from electronic controller to move clockwise or anticlockwise) for stabilizing output voltage continuously. Correction of voltage is also possible by raise/lower push buttons (i.e. manual operation) if electronic controller starts malfunctioning.

If both automatic and motorized controls fails, correction of voltage is possible by means of a Hand Wheel.

The Complete Unit consists of 4nos. integral units :

A) Step-Down Transformer – Double Wound

B) Voltage Regulator Unit is auto wound delta connected with rolling contact capable of moving on the winding through automatic / motorized / manual mechanism for regulation of voltage at output.

C) Buck Boost Transformer – Double Wound

D) Microprocessor Based Controller

The Step-down Transformer (A) steps down the H.T. Voltage to low voltage for supply to Voltage Regulator (B). The Voltage Regulator in turn feeds requisite voltage to the primary winding of Buck Boost Transformer (C).

The Buck Boost Transformer which is a conventional fixed ratio transformer gives requisite voltage at secondary side which is added or subtracted (being in series with the primary of step down transformer) in the incoming H.T. Voltage.

The variation of more than ±1% of the rated output voltage of the Stabilizer are sensed through Micro Processor Based Controller (D) which sends signals to the controlling servo motor (M) which further drives the roller mechanism in such a direction so as to increase or decrease the voltage and stabilize it to the rated output voltage.

All the accessories shown are not the necessary part of standard equipment.

DISTRIBUTION TRANSFORMER WITH BUILT IN HT AVR (i.e. Combo)

This Equipment is basically a combination of HT Servo Stabilizer & Standard Distribution Transformer. The incoming fluctuating HT Supply is stabilized and then fed to the step down transformer & thereby the output voltage level is maintained within ±1% accuracy.

This Equipment has following added advantages:

- **Better Efficiency.**
- **Space Saving.**
- **Reduced Installation Cost .**
- **100% Utilization of Transformer Capacity.**
- **Energy Savings resulting in Electricity Bills.**

ADVANTAGES OF DYANAMIC MAKE TRANSFORMER WITH BUILT-IN HT AVR OVER CONVENTIONAL TRANSFORMER WITH OLTC

Conventional Transformer with OLTC	Transformer with Built-in H.T. AVR
Stepped Correction by OLTC over a varied period depending upon no. of taps changed (8 to 10 sec. per taps with a time delay of 20 second).	Voltage Stabilization is stepless, continuous & smooth.
In OLTC normal range is +5% to -15% or +10% to -10% .(i.e. 9.35 KV to 11.55 KV or 9.9 KV to 12.1 KV)	DYNAMIC Make H.T. Automatic Stabilizer can be designed for any input voltage range i.e. 9 KV – 12 KV / 8 KV -12 KV / 9 KV – 13 KV / 8.5 KV -11.5KV etc. as per customer's requirement.
Life of OLTC is considered to be 5,00,000 operations in On Load position. Because of frequent change in input Voltage, life of OLTC is substantially reduced, particularly at sites where power supply is from rural feeders.	The carbon rollers move on helical coils mounted on a conventional laminated core which is a smooth process resulting in very long Life of the equipment.
The number of moving parts are more, therefore wear & tear of the same is more e.g. moving contacts, fixed contacts gear trains, resistors. Maintenance cost is more and takes more time.	Periodic maintenance is less because the rollers are the only component which undergoes wear & tear. Replacement cost of the same is very less and takes less than hour.
The mechanical movement of the different parts causes spark at each change of tapping as OLTC is fitted on high voltage winding which contaminates the transformer oil by carbonizing it. Periodic change of oil is required which is expensive as well as time consuming.	The roller on the winding of the regulator, which is at low voltage, does not cause spark while moving, which prevents the transformer oil from contamination. Hence periodic change of oil is not required.

All the accessories shown are not the necessary part of standard equipment.

SILICON RECTIFIERS

Rectifier is a device that converts AC Supply into DC Supply. Dynamic's Silicon Rectifiers are widely used in Electroplating, Anodizing, Hard Anodizing and other so many electrochemical processes.

Range

A wide range starting from 25Amps to 15000Amps at different output voltages as per customer's requirement. Available in two different models depending upon the variation in the DC Output Voltage i.e. 40% to 100% in 15 steps by two rotary switches and 0 to 100% stepless On load control by voltage regulator.

High Rating Rectifier

Standard Rectifier

Electrocolouring Transformer

Economic Rectifier

All the accessories shown are not the necessary part of standard equipment.

SOME STANDARD RATING:

On Load Volts	DC Output Amperes							
8	250	500	750	1000	1500	2000	3000	upto 15000
12	250	500	750	1000	1500	2000	3000	upto 15000
16	250	500	750	1000	1500	2000	3000	upto 15000
20	250	500	750	1000	1500	2000	3000	upto 15000
24	250	500	750	1000	1500	2000	3000	upto 15000
80	250	500	750	1000	1500	2000	3000	upto 5000

- **Non Standard ratings are quoted on specific demand.**
- **For ED Coating 300V to 400V Rectifiers are required.**
- **For Electrophoretic 80V to 150V Rectifiers are required.**

Internal view of Rectifier

APPLICATIONS :

- Electroplating
- Anodizing
- Hard Anodizing
- Hard Chrome Plating
- Etching
- Electrophoretic
- ED Coating
- Hydrogen Gas Production
- Chlorine Gas Production
- Annealing
- Furnace & Heating Furnace
- Other Electrochemical Processes

SPECIAL FEATURES:

SOME SPECIAL FEATURES WHICH DIFFERENTIATE 'DYNAMIC' FROM OTHER MAKES IN THE MARKET.

1. All Dynamic Rectifiers are provided with DC shunt of proper rating for accurate measurement of DC Current for uniformity in quality of your end product, instead of calibration (which may not be effective after some years of operation).
2. All Dynamic Rectifiers are mounted on Nylon Wheels instead of Cast iron wheels which go rusty after some period of use.
3. All Dynamic Rectifiers are provided with Digital Voltmeter and Digital Ammeter for measurement of DC Voltage & DC Current more accurately.
4. All Control Panels (Optional), if supplied by us , are powder coated instead of general spray paint.
5. RC network of Synchronous Motor is fitted on the top cover enclosed in the meter panel / junction box in order to reduce maintenance time of taking out the whole Rectifier assembly in DRC Model .
6. **Our Design is Such that almost 80% of The Maintenance Work (leaving Apart Diode Replacement or Some Fault in The Coil) Can Be Done Without Taking Out Rectifier Transformer Assembly Which Involves Labour and Precious Time Resulting In Production Loss.**

OPTIONAL FEATURES :

- Control Panel Consisting of customized items like MCCB/ Contactors / Timer / Buzzer / CVC / CCC etc.
- CVC (Contant Voltage Controller).
- CCC (Constant Current Controller).
- DC Overload Tripping.
- Minium Run Down Facility.
- Signals for PLC Compatibility.

All the accessories shown are not the necessary part of standard equipment.

IGBT RECTIFIERS

Dry Type (Air Cooled) IGBT Based Rectifier Equipment having the following specifications:

Technical Specifications:

TYPE	:	IGBT Based High frequency Rectifier
INPUT FREQUENCY	:	50- 60 Hz
DUTY CYCLE	:	100% Continuous
TYPE OF COOLING	:	ANAF
AMBIENT TEMP	:	45° Deg C

Some Standard Rating:

On Load Volts	DC Output Amperes							
12	250	500	750	1000	1500	2000	3000	upto 10000
16	250	500	750	1000	1500	2000	3000	upto 10000
24	250	500	750	1000	1500	2000	3000	upto 10000
80	250	500	750	1000	1500	2000	3000	upto 3000

- **Non Standard ratings are quoted on specific demand.**
- **For ED Coating 300V to 400V Rectifiers are required.**
- **For Electrophoretic 80V to 150V Rectifiers are required.**

Salient Features :

1. Digital display for DC Volts and Dc Amps
2. Constant Current / Constant Voltage Setting
3. Not Affected by Input power fluctuations (works on wide input voltage range 380-440V keeping in view the Indian power supply conditions)
4. Easy Operation & maintenance
5. High Accuracy & high reliability
6. Timer Function
7. Output Regulation Range 0 to 100%
8. MCB / MCCB on input Side
9. Remote Control Box with 8 meter wire (Additional wire at an extra cost)
10. Power Coated Enclosure
11. Designed for 100% Continuous Duty Cycle
12. Best suited to Indian Atmospheric conditions
13. Compact Design
14. Light in Weight
15. High Efficiency (more than 90%)
16. Almost negligible power consumption at No Load condition
17. In case of power failure, automatic switching on of rectifier and start rising up to preset voltage and current on resumption of power

Protections of Rectifier

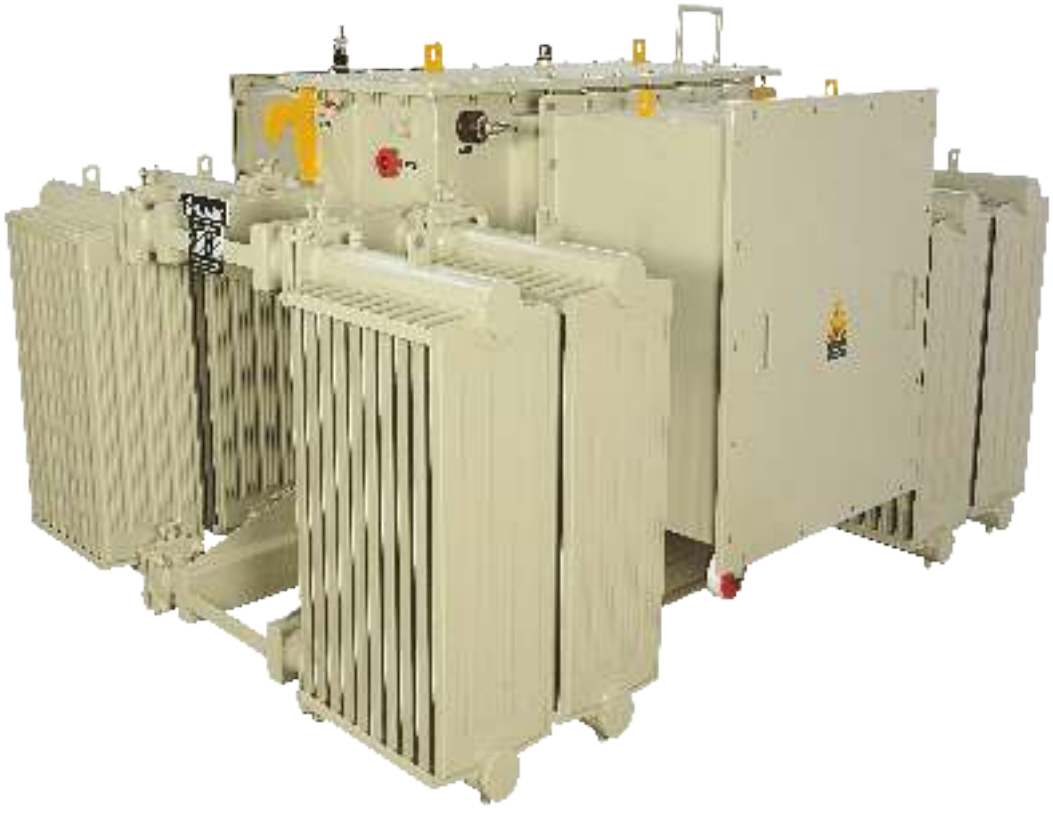
1. Protection against high/ low input voltage
2. Protection against phase failure
3. Protection against Overload / Short Circuit
4. Protection against Over temperature

All the accessories shown are not the necessary part of standard equipment.

ISOLATION TRANSFORMER

Ultra Isolation Transformers are made of electrolytic grade copper and cold rolled grain oriented lamination with copper shield separating the primary to the secondary winding, in order to clear the high end surges and spikes coming from incoming supply or generated from the inside distribution systems.

Dynamic offers high quality Ultra Isolation Transformers suitable ideally for the sophisticated CNC Machines, Bio-Medical Equipment, Printing Machinery, Large Computer Installations, Telecommunication Equipment, Scientific Equipment etc for suppressing the surges and spikes at the maximum level.



Applications

Dynamic's Ultra Isolation Transformers are used to reduce the effects of power line problems like spikes, surges and neutral to a minimum.

Due to Inductive loads, capacitive loads, electronic ballasts, the present AC Power lines are superimposed with dangerous spikes, surges, transient and harmonics resulting in failure of electronic equipment.

With Dynamic's Isolation Transformers, the precious electronic equipment can be protected.

Specifications :

System Connection	Delta/Star or Star/Delta
Ratio	1:1 or 2:1
Regulation	better than 3.5%
Power Factor	0.75 lag to 0.75 lead
Dielectric Strength	2500 V AC for 120 sec
Insulation Resistance	more than 1000 mega ohm
Coupling Capacitance	0.1 pF for 100 db

Furnace Transformer

Furnace transformers are used for electric furnaces to melt and refine materials.In this transformer Incoming voltage is stepped down to low voltage as per furnace design. This results in massive secondary current. If desired (depending on application), Electrostatic shield of copper between primary and secondary is also provided.

All the accessories shown are not the necessary part of standard equipment.

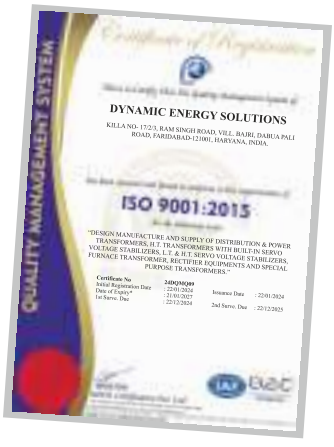
TESTING & QUALITY CONTROL

We, at Dynamic, is obsessed with quality and has made quality improvement a continuous endeavor. Keeping in mind our primary objective of client satisfaction, we use the best quality raw materials, which makes our products highly efficient and reliable.

To maintain consistently high quality, all the facilities like winding, core cutting, assembling, fabrication, and painting are done in-house. Every product is tested at various manufacturing stages to maintain quality and performance at our client's end. This testing is also done at our in-house testing facility which again helps in maintaining consistently high quality.

The company also involves itself into ground breaking R&D work and inculcation of new technologies to the manufacturing process. The company has a team of highly qualified and experienced design engineers and skilled design draftsman, trained in advanced software who help in creation for customized and more efficient designs for better productivity.

Certifications



Each equipment is declared fit for dispatch after passing the under mentioned tests :

1. Measurement of Insulation Resistance
2. Separate Source Voltage Withstand Test (HV Test)
3. Induced Over Voltage (DVDF) Test
4. Measurement of Voltage Ratio, Polarity and checking of Vector Relationship
5. Measurement of No Load Losses and No Load Current
6. Measurement of Short Circuit Impedance and Load Loss
7. Measurement of Winding Resistance
8. Oil Dielectric Test (BDV of Transformer Oil)

Infrastructure

Dynamic Energy Solutions has a modern manufacturing facility in Faridabad having a built up area of 22,500 sq. ft. and capacity to produce 1000 MVA per annum and capable of manufacturing and testing up to 12.5 MVA Transformer. All these are backed by well defined manufacturing process & quality checks.

Core Assembly

Coil Winding

Regulator Assembly Fitting

Fabrication

Transformer Fitting Process

Regulator Coil Grinding Process

All the accessories shown are not the necessary part of standard equipment.

Some of Our Esteemed Clients

www.dynamicenergy.in

DYNAMIC

DYNAMIC ENERGY SOLUTIONS

(An ISO 9001 : 2015 Certified Company)

Unit-I: Killa No-17/2/3, Ram Singh Road, Village Bajri, Dabua Pali Road, Faridabad-121001, (Haryana) INDIA.

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(An ISO 9001 : 2015 Certified Company)

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