

# *CSEpower*

Transforming your power



*Quality*  
is the result of  
*Care*

India



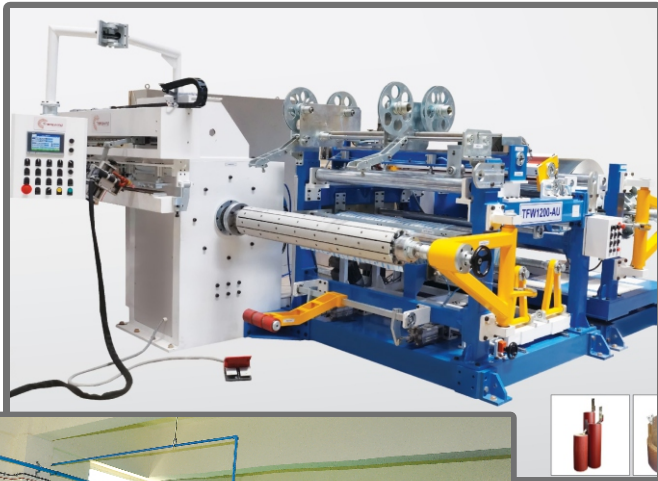
## Company Profile

CHUAN SHUN ELECTRIC COMPANY (*CSEpower*) was founded in 1978 in Taiwan. Moving towards expansion, *CSEpower* entered the overseas market with new manufacturing facilities in Philippines, China and India. A State-of-the-art facility in Bangalore, India, started in the year 2011 to cater the rapidly growing global demand in the Transformer industry. With time proven designs and satisfied customers, we enjoy our fame and share in the Transformer Industry.

*CSEpower* globally has 4 decades experience in Design, Development and Manufacturing of Transformers & Reactors. We are equipped with in-house capability to design power and distribution transformers to all specifications of power distribution companies, utilities, electricity boards as well as star rated energy efficient transformers. We have dedicated R& D setup and professionally trained Mechanical & Electrical Engineers. *CSEpower* offers customized bespoke designs to cater the specific requirements of the customers. Our transformers have acquired world wide acceptance in the market under the brand name *CSEpower* across the globe. We believe and adapt our skills to be competitive with the best Quality Power equipment manufacturers worldwide.

An ISO 9001:2015 and ISO 14001:2015 certified company with versatile and flexible UL Insulation systems (Class B – Class R) in accordance with UL 1446 standards. Our products comply with the global quality certifications viz., UL, UR, CE, RoHS, REACH and BIS.



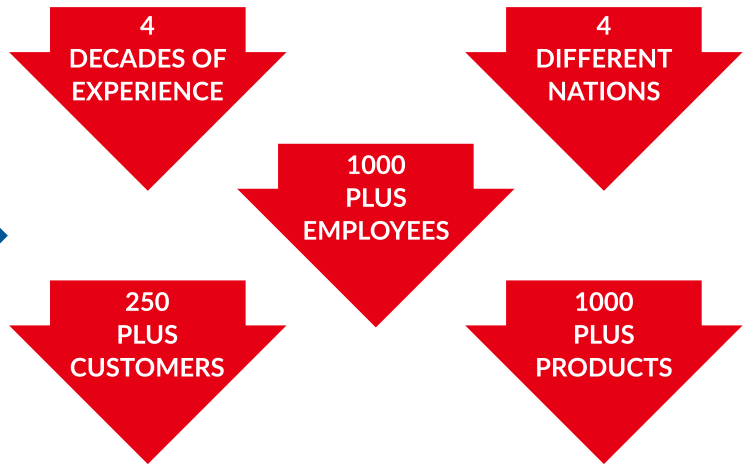


CERTIFICATION



**CSEpower**  
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**CSEpower**  
at Glance



Quality is the  
result of care  
is the motto of CSE

We  
are Committed  
to Serve the  
Best Quality at  
the right Price  
to our Customers

## Product Ranges

- Energy Efficient Distribution Transformers  
– 25 kVA to 2500 kVA.
- Power Transformers - Upto 5000 kVA,  
33 kV Class.
- Corrugated Type Hermitically Sealed  
Transformers.
- Solar Application - Inverter Transformers  
- Upto 5 MVA, 33 kV Class.
- Drive Application – Converter Duty  
Transformers - Upto 5 MVA,  
33 kV Class of 12 Pulse.
- Dry Type VPI Transformers  
- Upto 2.5 MVA, 11 kV Class.
- Dry Type Reactors – Upto 1 MVAR

**CSEpower** offers a wide range of power and distribution transformers designed to grant the reliability, durability, and efficiency required in utility, industrial, and commercial applications.

**CSEpower** is one of the major transformer manufacturer & offers both dry-type and oil-filled transformers as well as services for life-cycle support, including all parts and assemblies.

## SALIENT FEATURES

- Design conforms to IS: 1180, IS: 2026, BS 171, IEC 76 and other relevant standards.
- BESCO and other ESCOMs Approved.
- Products - Type Tested at CPRI as per IS 1180, IS 2026, IS 11171 & IEC 60076-11.
- ISO 9001 : 2015 & ISO 14001 : 2015 accredited by TUV
- Latest manufacturing techniques to ensure cost effectiveness and reliability.
- Designed for 25 years of trouble – free performance.
- Transformers with On Load Tap Changers (OLTCs) and RTCC Panel.
- Optimum utilization of active materials for sleek design.
- Designed to withstand electrical impulses and thermal and dynamic stresses.
- Quality energy efficient transformers featuring exceptional performance and savings.

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# Manufacturing Process



**Core Assembly**



**Core Assembly**



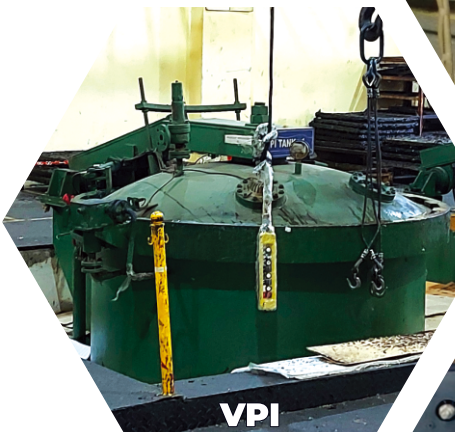
**Foil Winding**



**Disc Winding**



**Core-Coil Assembly**



**VPI**



**TANKING**



**BAKING**



**TESTING**

# Power and Distribution Transformers

RANGE: Upto 2500 KVA in 3.3, 6.6, 11, 22 & 33 KV Class.

**CSEpower** covers a wide range of Oil Filled Distribution Transformer manufacturing with Off Circuit Tap Changer (up to 2500 KVA in 3.3 KV, 6.6 KV, 11 KV, 22 KV & 33 KV Class) and On Load Tap Changer (up to 2500 KVA in 11 KV, 22 KV & 33 KV Class) conforming to the Bureau of Indian Standards and IEC standards for quality and safety. These transformers are designed and developed using latest technologies and can be provided with a variety of terminations so as to suit the requirements for new installation or replacement.

Optimum efficiency is ensured by delicate proportioning of core and winding losses using CRGO M3 to M5 MOH Lamination, Electrolytic Grade 99.9% pure copper, with Transposition in L.V. coil for current sharing in parallel Conductors, Electric grade press paper, boards and mineral oil. By optimum design, better regulation, low noise & longer life is achieved.

## Standard Specification

Capacity	- Upto 2500 KVA Distribution Transformers - Upto 5000 KVA Power Transformers
No. of Phases	- 3 Phase
Frequency	- 50 Hz
Voltage Range for OCTC	- 3.3 KV / 6.6 KV / 11 KV / 22 KV / 33 KV
Tapping for OCTC	- +5 % to -15% in steps 2.5% or as per requirement of customer
Voltage Range for OLTC	- 11 KV / 22 KV / 33 KV
Tap Range for OLTC	- +5 % to -15% in steps of 2.5% or as per requirement of customer
Insulation	- Class 'A'
Vector Group	- Dyn11, Dyn5, Dyn1 or as specified by the customer
Duty Cycle	- Continuous
Winding	- Copper / Aluminium Wound
Applicable Standards	- BIS-1180, IS-2026, IEC 60076
Painting	- Epoxy, Polyurethane or specified by the customer

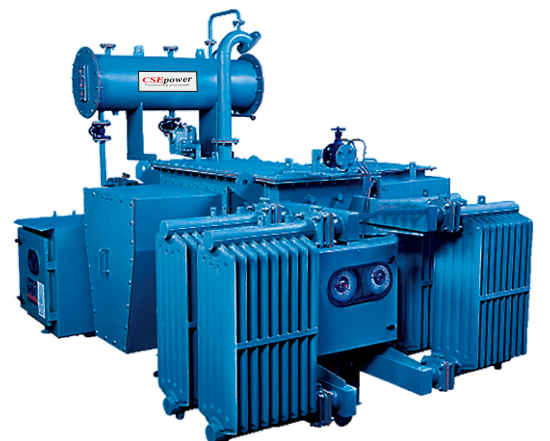
## Standard Fittings

- Rating & Diagram plate
- Lifting lugs
- Oil Conservator with drain plug
- Oil Level indicator
- Top-filter Valve
- Silica gel breather
- Cooling radiators
- Earthing terminals
- Thermometer pocket
- Air release hole with plug
- Explosion vent with diaphragm
- Inspection cover.
- Drain -cum-bottom-filter valve
- Uni / Bi- directional rollers

## Optional Fittings

- Buchholz relay with alarm and trip contact
- Pressure Release Valve
- Cable Box on H.T. Side
- Oil Temp. Indicator with alarm & trip contact
- Winding Temp. indicator with alarm & trip contact
- Magnetic oil level gauge with alarm contact
- Marshalling box to house O.T.I. and W.T.I
- Cable Box on L.T. Side.
- RTCC (Remote Tap Changer Control) Cubicle
- Electronic Automatic Voltage Controller

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## Dry Type Power & Distribution Transformers

Capacity	- Upto 2500 KVA Power & Distribution Transformers
No. of Phases	- 3 Phase / 1 Phase
Frequency	- 50 Hz / 60 Hz
Voltage Range for OCTC	- up to 11 KV,
K Rating	- K1 – K20
Tapping for OCTC	- +5 % to -5% in steps 2.5% or as per requirement of customer
Insulation	- Class F/H insulated
Vector Group	- Dyn11, Dyn5, Dyn1 or as specified by the customer
Duty Cycle	- Continuous
Winding	- Copper / Aluminium Wound
Applicable Standards	- IS-2026, IEC 60076
Protection	- Enclosure with or without cooling mesh/louvers



### Applications:

- UPS (Input / Output / Bypass / Load Isolation),
- DC Drives, AC Drives, Utility

## Dry Type Power Chokes / Inductors / Reactors

- 3 Phase / 1 Phase Iron Core / Air Core
- 50 / 60 / Mixed Frequency up to 10 kHz
- 1 kVAR – 1000 KVAR
- Natural / Forced Cooled
- With or Without Enclosure



### Applications:

- UPS (PFC / Inverter), Solar Converters
- Wind Converters, DC Drives (Motor Side)
- AC Drives, Passive Filters, Active Filters
- DC Filtering, Battery Chargers

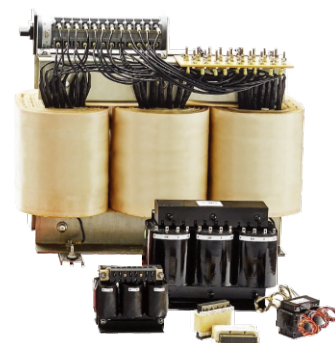


## Dry Type Control and Auxiliary Transformers

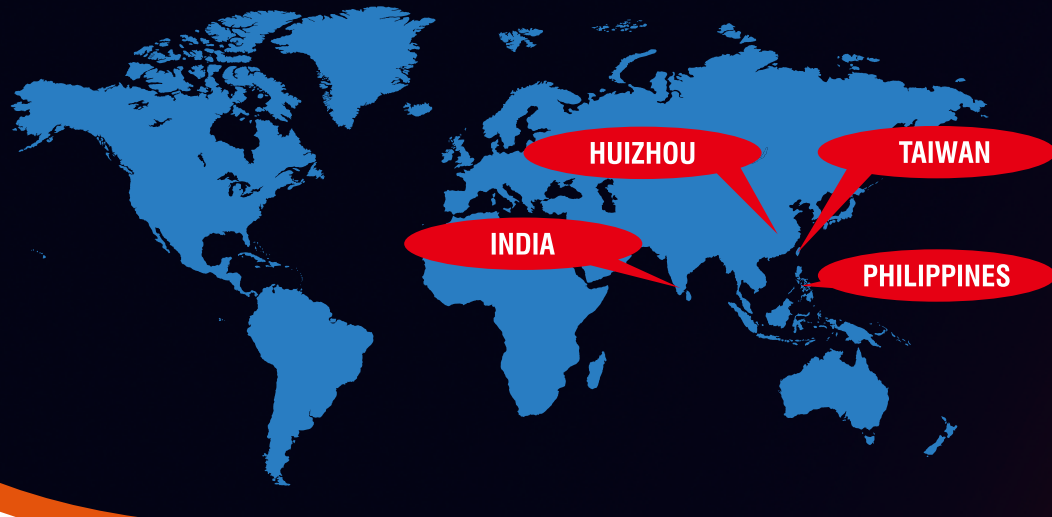
- 3 Phase / 1 Phase up to 690 V
- 50 / 60 kHz
- 200 VA – 10 kVA
- Natural / Forced Cooled
- With or Without Enclosure

### Applications:

- UPS, DC Drives, AC Drives, Solar Converters
- Wind Converters, Instrumentation Panels
- LV Distribution Boards
- Medical Applications



## VALUED CUSTOMERS



# CSEpower

Transforming your power

### India

**CHUAN SHUN ELECTRIC COMPANY (INDIA) PRIVATE LIMITED**  
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