



**Transformers up to 500kV  
and 900MVA capacity**



# **Solving Supply Chain Challenges in Power Transmission and Distribution Transformers**

**Lead times up to 50% faster, giving you greater control over project timelines and reducing the risk of delays to energisation.**



ENERGY & RENEWABLES | MINING | DEFENCE | OIL & GAS | INFRASTRUCTURE & UTILITIES



## A manufacturing solution to accelerate Time-To-Energisation

PSD Energy has an exclusive partnership with the publicly listed Dong Anh Electrical Equipment Corporation in Vietnam, offering lead times up to 50% faster — delivering critical electrical equipment within 9 to 15 months.

This partnership was established through an extensive period of technical due diligence and the transfer of Australian standards and system integration expertise from our senior engineering teams. Australian clients now have access to reliable, high-quality electrical solutions with shorter lead times and full confidence in compliance and performance.







## **Transparent QA**

Every product is fully tested, compliant, and certified to meet Australian standards and conditions, and is fully supported by our national engineering teams.

For your next project, you are invited to personally supervise the Factory Acceptance Testing (FAT) in Hanoi. You'll witness world-class manufacturing, testing, and QA standards equivalent to those of leading OEMs. Our facilities operate with full transparency, allowing you to verify every step of the process.

## **Seamless Integration with PSD Energy's Local Design Services – Tracked and Delivered to your Schedule**

The manufacturing operations are fully integrated with PSD Energy's 100+ local design engineers, ensuring a seamless extension of our value engineering process. From initial design to final delivery, we optimise plans and execute them with the precision PSD Energy is renowned for.

Our in-house capabilities include civil engineering, plant and equipment, and onsite teams working to maximise site footprint efficiency and ensure seamless connectivity for on-time energisation.

With a unified system in place, we remain agile in responding to specification changes or unexpected challenges. Your dedicated project manager provides continuous updates, ensuring your project stays on track and meets all milestones.



# Overview of manufacturing capabilities and certification

## | Transformers

- ▶ Design and manufacture of transformers up to 500kV and 900MVA capacity.
- ▶ Various types of distribution transformers.
- ▶ Current and voltage transformers.

## | Quality Management Certifications

- ▶ ISO 9001:2015: Quality Management System
- ▶ ISO 14001:2015: Environmental Management System
- ▶ ISO 45001:2018: Occupational Health and Safety Management System



Quality  
ISO 9001



Environment  
ISO 14001



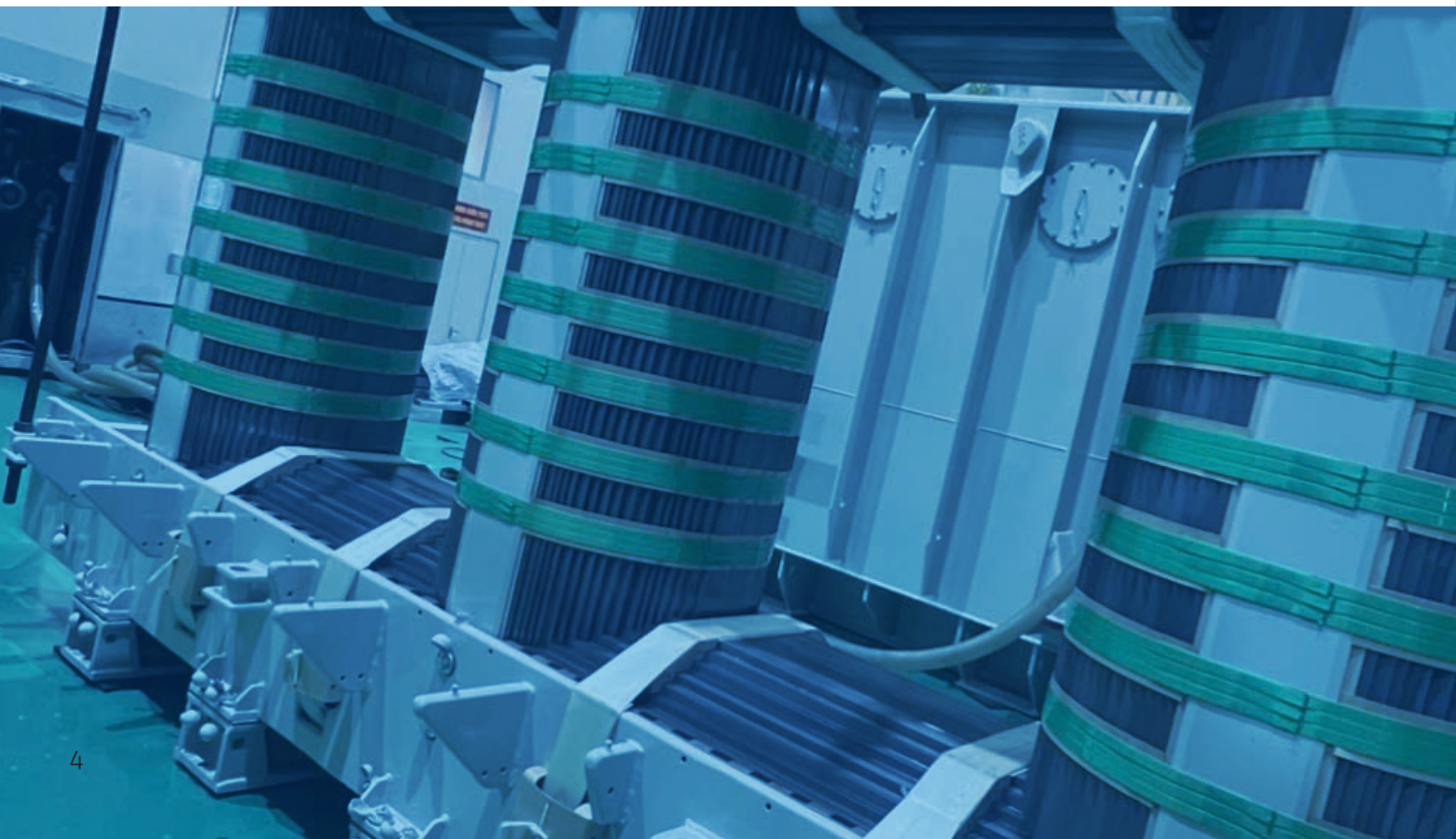
Health & Safety  
AS/NZS 4801



Information  
Security  
ISO 27001

## | Product Certifications

- ▶ **Transformers:** Capacity up to 900MVA, Voltage up to 500kV.
- ▶ **Laboratory Certification:** ISO/IEC 17025:2017 compliant.







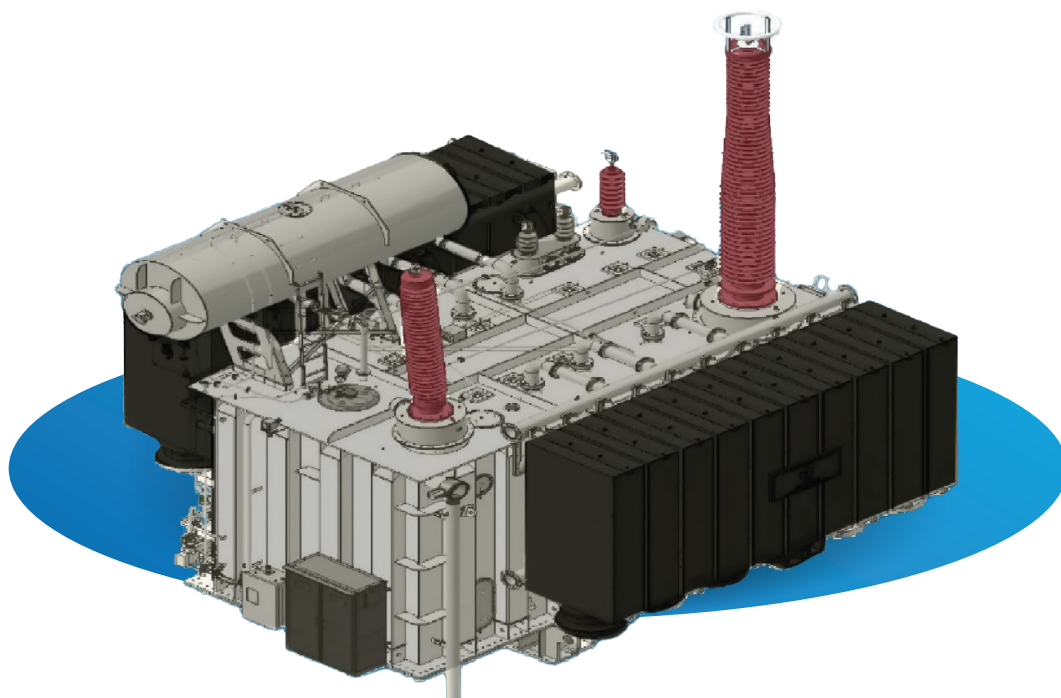
**Products available for faster  
Time-to-Energisation**





# 500kV Auto Transformer

- **Standards:** IEC 60076
- **Capacities:** 150MVA, 200MVA, 300MVA
- **Customisation:** Other specific capacities, voltage levels, and vector group configurations can be manufactured to meet client specifications.



## Performance Specifications

Rated Power (MVA)	Rated Voltage (kV)	Losses		No Load Current (%)	Short Circuit Impedance		
		No Load Loss (kW)	Load Loss (kW)		HV-MV (%)	HV-LV (%)	MV-LV (%)
3x150	$\frac{500}{\sqrt{3}}/35$	60	240	0.1	13	35	20
3x300	$\frac{500}{\sqrt{3}}/35$	80	410	0.04	14.5	45	28

## Dimensions

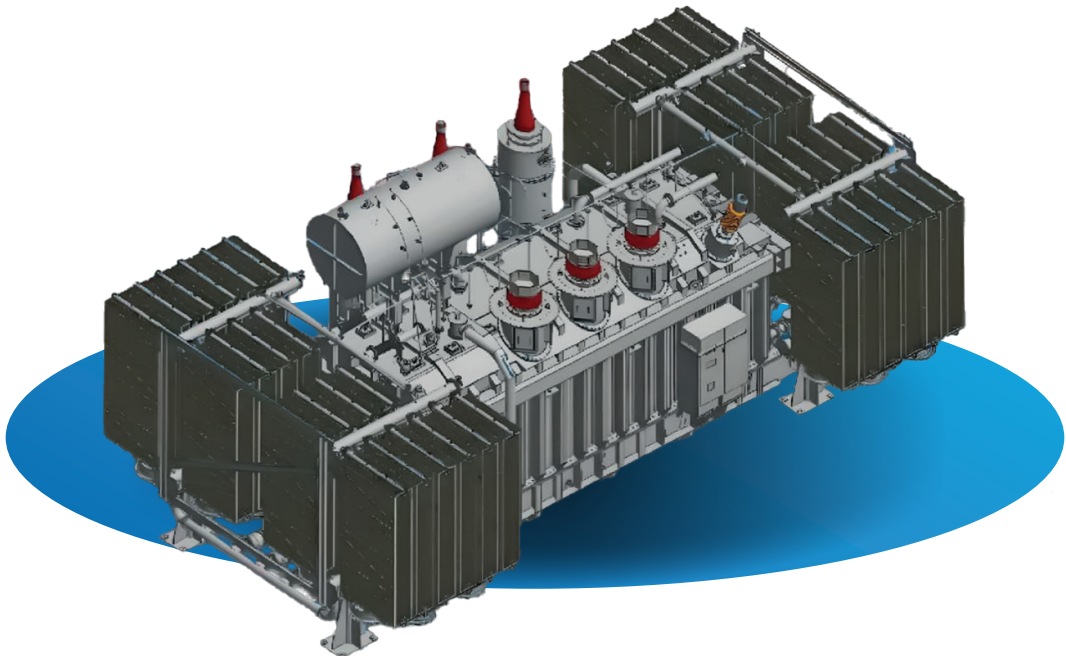
Rated Power (MVA)	Rated Voltage (kV)	Length	Width	Height	Weight
3x150	$\frac{500}{\sqrt{3}}/35$	7.8m	6.8m	9.38m	192t
3x300	$\frac{500}{\sqrt{3}}/35$	8.270m	8.260m	10.860m	272t



# 500kV GSU

## Three Phase Transformer

- **Standards:** IEC 60076
- **Capacities:** up to 750MVA
- **Customisation:** Other specific capacities, voltage levels, and vector group configurations can be manufactured to meet client specifications.



### Performance Specifications

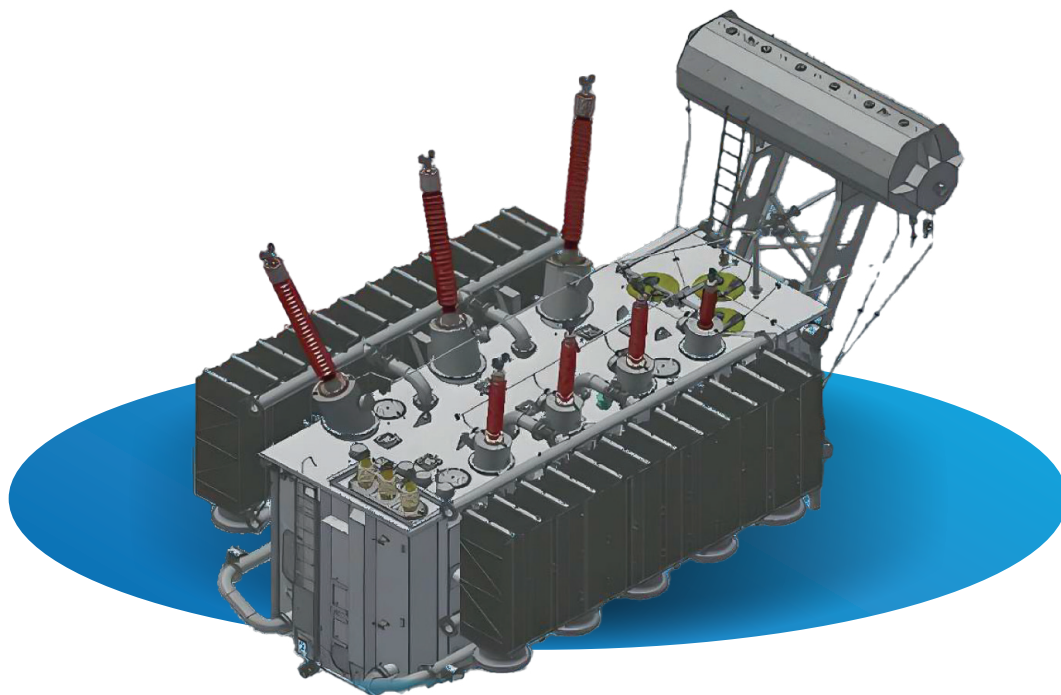
		Losses			Short Circuit Impedance		
Rated Power (MVA)	Rated Voltage (kV)	No Load Loss (kW)	Load Loss (kW)	No Load Current (%)	HV-MV (%)	HV-LV (%)	MV-LV (%)
467	500/18	210	1000	0.1	–	14-15	–

### Dimensions

Rated Power (MVA)	Rated Voltage (kV)	Length	Width	Height	Weight
467	500/18	15.952m	7.762m	7.524m	286.8t

# 220kV Three Phase Transformer

- **Standards:** IEC 60076
- **Capacities:** 125MVA, 250MVA
- **Customisation:** Other specific capacities (i.e. 63MVA), voltage levels, and vector group configurations can be manufactured to meet client specifications.



## Performance Specifications

Rated Power (MVA)	Rated Voltage (kV)	Losses			Short Circuit Impedance		
		No Load Loss (kW)	Load Loss (kW)	No Load Current (%)	HV-MV (%)	HV-LV (%)	MV-LV (%)
125	225/115/23	35	240	0.1	11	45	28
250	225/115/23	58	380	0.03	11	35	21

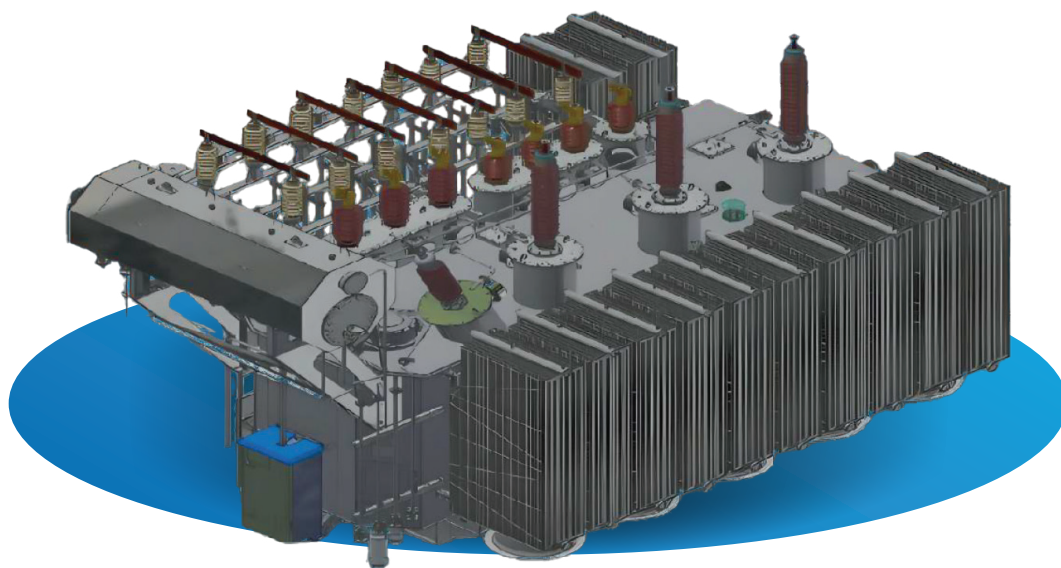
## Dimensions

Rated Power (MVA)	Rated Voltage (kV)	Length	Width	Height	Weight
125	225/115/23	10.15m	6.45m	7.43m	154t
250	225/115/23	12m	6.45m	7.65m	200t



# 110kV Three Phase Transformer

- **Standards:** IEC 60076
- **Capacities:** 25MVA, 40MVA, 63MVA
- **Customisation:** Other specific capacities voltage levels, and vector group configurations can be manufactured to meet client specifications.



## Performance Specifications

Rated Power (MVA)	Rated Voltage (kV)	Losses		No Load Current (%)	Short Circuit Impedance		
		No Load Loss (kW)	Load Loss (kW)		HV-MV (%)	HV-LV (%)	MV-LV (%)
63	115/23 (11)	28	190	0.2	–	11–12	–
	115/38.5/23	28	190	0.2	11–12	17.6–19.5	6–7
40	115/23 (11)	18	160	0.2	–	11–12	–
	115/38.5/23	18	160	0.2	11–12	17.6–19.5	6–7
25	115/23 (11)	15	105	0.2	–	11–12	–
	115/38.5/23	15	105	0.2	11–12	17.6–19.5	6–7

## Dimensions

Rated Power (MVA)	Rated Voltage (kV)	Length	Width	Height	Weight
63	115/23 (11)	7.4m	5.06m	5.385m	89.5t
	115/38.5/23	7.88m	5.45m	5.44m	97t
40	115/23 (11)	6.9m	5.2m	5.28m	70.5t
	115/38.5/23	7.36m	5.21m	5.37m	74.1t
25	115/23 (11)	7.25m	5.4m	4.79m	55t
	115/38.5/23	7.25m	5.7m	4.85m	61t

## Distribution Transformer

- **Capacity:** From 50kVA to 25,000kVA (other capacities available upon request).
- **Voltage:** 35/22/0.4kV, 22/0.4kV (other voltage configurations available to meet customer requirements).
- **Standards:** Compliant with IEC 60076 and can meet specific customer requirements.



## Dry Transformer

- **Capacity:** From 50kVA to 4,000kVA (other capacities available upon request).
- **Voltage:** 35/22/0.4kV, 22/0.4kV (other voltage configurations available to meet customer requirements).
- **Standards:** Compliant with IEC 60076, and can meet specific customer requirements.









## Manufacturing capabilities overview

- ▶ Power transformer assembly workshop
- ▶ Distribution transformer assembly workshop
- ▶ Mechanical workshop
- ▶ Magnetic core cutting workshop
- ▶ Vertical winding machine
- ▶ Winding machine for distribution transformers
- ▶ CNC Silicon steel cutting machine
- ▶ Oil Vapour vacuum drying oven
- ▶ Copper sheet winding machine
- ▶ Insulation processing machine
- ▶ Source supply of testing system
- ▶ Transformer oil filter with capacity of 10,000 litre per hour
- ▶ Impulse test system
- ▶ Plasma steel cutting machine
- ▶ Transformer losses measuring system
- ▶ Mobile measuring bridge



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**Exclusive partners of Dong Anh Electrical Equipment Corporation**

Contact PSD Energy for local design and value engineering for faster Time-To-Energisation and schedule control.