

# GEIS

## WaveFlo

### Oil-Immersed Transformers

GEIS Electrical Protection

Safer Smarter Greener



## About GEIS

GEIS was established in 2019 following the spin-off of several businesses and assets that ABB had acquired from GE on July 1, 2018, including 3 manufacturing centers, Warehousing & Trading business at FTZ, China Technology Center.

- Components: Full range of circuit breakers up to 40.5kV: Medium voltage vacuum circuit breakers, LV circuit breakers: ACB, MCCB, MCB, RCD, RCBO: Control components.
- Equipment: MV switchgear (Air insulation and Gas Insulation Technology), LV switchgear, switchboard.
- Medium voltage distribution transformer.
- Medium voltage ATS system (Paralleling Switchgear).

After the separation, all the above product lines were rebranded as AEG for selected markets and GEIS for global markets. Moreover, GEIS has expanded its technological portfolio to include medium-voltage controls such as VFDs and soft starters, as well as ATS systems and EV chargers.



## Quality is Built-in

### Where Technology Meets Manufacturing Excellence for Customers

- Since 2000, we have been specializing in localizing world-class products and manufacturing technologies, developing strong expertise and a highly capable team.
- Vertical integrated Shanghai Manufacturing Center brought key manufacturing processes into a 75,000 m<sup>2</sup> facility, enabling high-quality, high-efficiency production and fostering innovation. A dedicated R&D team committed to developing products that meet global standards and serve diverse applications.
- Global expansion: GEIS's first Thailand facility makes it easier to serve customers worldwide.



### GEIS deliver complete range of products for the evolving electrification needs:



**SecoVac** VCB



**M-PACT Plus** ACB



**Elfa** Series MCB/RCBO



**SolidDrive** MV VFD



**SecoGear** MV Switchgear



**RMU** Gas Insulated Switchgear



**WaveCast** Transformer



**MLS** LV Switchgear

# WaveFlo Oil-Immersed Transformers

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## Product Description

### Overview

WaveFlo transformers are engineered for high reliability, efficiency, and long service life in modern power distribution networks. Designed in compliance with both **IEC and IEEE/NEMA standards**, they support global applications including utility, industrial, and renewable energy sectors.

With advanced electromagnetic design, premium core materials, and robust insulation systems, WaveFlo minimizes losses, reduces lifecycle cost, and ensures stable performance under demanding operating conditions.



### WaveFlo Transformers from GEIS Characterized by:

- Safety and reliability
- Energy efficiency
- Advanced manufacturing processes
- Premium industrial design

### Key Specifications:

- Voltage Rating: Up to 35 kV
- Capacity: Up to 63 MVA
- Configuration: 3-phase with OLTC or OCTC
- Cooling Methods: ONAN, ONAF,KNAN, KNAF
- Corrosion Protection: Rated C4 and above



### Typical application of Wave Liquid Transformers include:

- Urban and rural distribution networks
- Transmission network for industrial plants, rural areas, and urban areas
- New energy power stations, power plants, and substations

## Product Description

### Certifications

GEIS has passed the entire routine and type test carried out by third laboratory. The test approvals include short-circuit capability, typical lightning impulse, pressure deflection test and temperature rise.



实验室名称: 苏州电器科学研究院股份有限公司  
 国家电器产品质量检验检测中心  
 Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd.  
 China National Center for Quality Inspection and Test of Electrical Apparatus Products

No 24M1229-S

#### 型式试验报告 Type Test Report

委托单位: 安费核电气工业系统(上海)有限公司  
 Client: AEG Electric (Shanghai) Co., Ltd.  
 产品名称: 有载调压电力变压器  
 Name of Product: On-load voltage regulating power transformer  
 产品型号: SZ22-31500/35-NX1  
 Product Type:  
 检验类别: 型式试验  
 Test Category: Type test

本实验室对出具的检验(试验)结果负责, 未经实验室书面同意, 不得部分地复制或报告。  
 The laboratory is responsible for the inspection (Test) results. The report shall not be reproduced except in full, written approval of the laboratory.

### Product Features

Wave Liquid transformers integrate advanced technologies to deliver superior performance and reliability. Key features include:

- **Optimized Potential Distribution.** The advanced software calculates potential and gradient distributions precisely, ensuring optimal electrical performance and reducing local overheating.
- **Low Loss Design.** Electromagnetic optimization fine-tunes the core and winding configurations, minimizing stray losses by controlling magnetic flux leakage, while simultaneously preventing local overheating and balancing thermal gradients.
- **High Short-Circuit Withstand Capability.** Analytical force modeling accurately constrains short-circuit stresses within windings, thereby enhancing mechanical stability and improving endurance against extreme fault current.
- **Reduced Partial Discharge.** Electric field analysis optimizes the distribution in concentrated regions, minimizing the risk of partial discharge. Vacuum oil filling helps air bubbles prevention, further reducing discharge risks and extending service life.
- **Low Noise Levels.** The use of high-quality silicon steel cores, optimized flux density, and improved connections between the tank and active parts significantly reduces noise.
- **Low Temperature Rise.** Optimized oil flow design reduces hot spot and average temperature rises, thereby increasing overload capacity and extending transformer lifespan.
- **Advanced Manufacturing Processes.** By leveraging cutting-edge manufacturing techniques, transformers achieve superior quality and consistency.
- **Corrosion Protection.** It is rated C4-M or above, providing excellent corrosion resistance in severe environments.

## Cores

### Construction ensures optimal performance

Transformer cores utilize mitered step-lap technology to optimize performance and minimize sound levels. The cores are constructed of non-aging, high-permeability, grain-oriented silicon steel laminations, offering high magnetic permeability.

Advanced equipment for the slitting process and shearing process of silicon steel sheet results in lower burrs and higher accuracy. The automatic core lamination line reduces losses and damage to the grain-oriented direction of the sheets during the lamination process, while also improving lamination speed.

Core laminations are free of burrs and stacked without gaps, resulting in the lowest possible losses from magnetic hysteresis and eddy currents. The core clamping brackets are designed to provide an even distribution of clamping forces to the core yokes and legs, and are rigidly braced to reduce sound levels and losses.

Other core construction benefits include:

Magnetic flux densities are kept well below saturation point.

PET or glass fiber is used for binding the core legs, ensuring a tighter core and lower noise.



## Feature

### Windings

Advanced winding technology



The HV winding of transformer is made of high strength enameled wire or paper-insulated wire, the LV winding is made of high strength enameled wire or paper-insulated wire and copper belt winding, which offers uniform distribution of ampere-turns, reasonable insulation structure so as to offer high ability to withstand short-circuit.



Intelligent foil winding machine



Layer-type winding



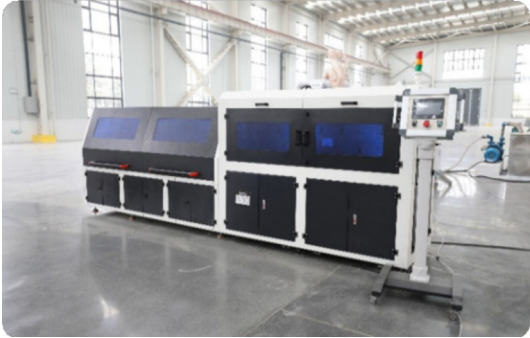
5T horizontal winding machines



Disk-type winding

Main Active Parts

Advanced insulation parts production and assembly technology



Automatic Wedge Block Punching Machine



Corner ring and insulation paperboard



Main active part



End-winding insulation



Four-Column Hydraulic Press



CNC Panel Cutter

## Feature

### Tanks

Advanced equipment, C4 anticorrosion class, strict quality control



Automatic corrugated sheet forming and welding



Welding robot



Raditor production line



CNC bending machine

Accessories

Smart warehouses improve accessory management with real-time tracking and automated inventory control.



Smart Warehouse

## Feature

### Applicable Standards

#### IEC Transformer

IEC 60076-1	Power transformers-Part 1: General
IEC 60076-2	Power transformers-Part 2: Temperature rise for liquid-immersed transformers
IEC 60076-3	Power transformers-Part 3: Insulation levels, dielectric tests and external clearances in air
IEC 60076-4	Power transformers-Part 4: Guide to the lightning impulse and switching impulse testing –Power transformers and reactors
IEC 60076-5	Power transformers-Part 5: Ability to withstand short circuit
IEC 60076-7	Power transformers-Part 7: Loading guide for mineral-oil-immersed power transformers
IEC 60076-8	Power transformers-Part 8: Application guide
IEC 60076-10	Power transformers-Part 10: Determination of sound levels
IEC 60076-10-1	Power transformers-Part 10-1: Determination of sound levels-Application guide

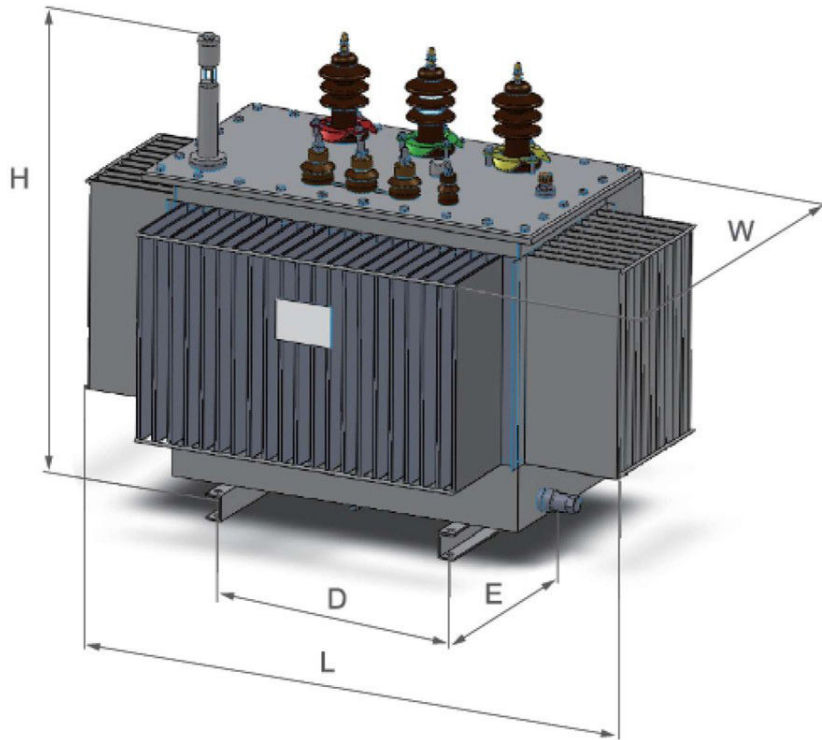
#### IEEE Transformer

IEEE Std C57.12.00 IEEE Standard for General Requirements for Liquid-Immersed Distribution, Power, and Regulating Transformers

IEEE Std C57.12.90 IEEE Standard Test Code for Liquid-Immersed Distribution, Power, and Regulating Transformers

**Main Technical Parameters**

Typical outline for liquid-immersed transformer



Basic Technical Parameter

Conductors	Copper or Aluminum
Frequency (Hz)	50/60
Off-load tapping range	±2x2.5%, ±5%
On-load tapping range	±4x2.5%
Insulation Class	A(105 °C)
Temperature rise	60K (Oil) / 65K (winding)
Ambient temperature°C	Max.40, Min.-25
Altitude (m above sea level)	≤1000
Vector Group	Dyn11,Dyn5,Yyn0,YNd11,Yd11
Cooling mode	ONAN,ONAF,KNAN,KNAF
Voltage fluctuation	±5%

## Main Technical Parameters

### Technical Parameters — IEC Ratings

#### 12kV and below, 50Hz,three-phase, ONAN, Dyn11, copper winding, OCTC

##### A. STANDARD-LOSS

Capacity (kVA)	Voltage (HV/LV)		No load loss (kw)	Load loss (kw)	Impedance (%)	Weight (kg)	DimensionsL×W×H (mm)	Gauge distance D×E (mm)
160	12 11 10 6	0.4 0.415 0.433 0.48 0.69	0.28	2.31	4	585	1050×715×945	550×550
200			0.34	2.73	4	695	1145×805×955	550×550
250			0.4	3.2	4	820	1200×830×1035	550×550
315			0.48	3.83	4	960	1275×845×1080	550×550
400			0.57	4.52	4	1135	1365×930×1105	550×550
500			0.68	5.41	4	1360	1485×1050×1165	660×660
630			0.81	6.2	4.5	1605	1495×1025×1185	660×660
800			0.98	7.5	4.5	2085	1650×1110×1280	660×660
1000			1.15	10.3	4.5	2435	1690×1190×1405	820×820
1250			1.36	12	4.5	2850	1780×1220×1560	820×820
1600			1.64	14.5	4.5	3700	1890×1280×1635	820×820
2000			1.94	18.3	5	4200	1980×1310×1635	820×820
2500			2.29	21.2	5	5010	2115×1330×1825	1070×1070

##### B. LOW-LOSS

Capacity (kVA)	Voltage (HV/LV)		No load loss (kw)	Load loss (kw)	Impedance (%)	Weight (kg)	DimensionsL×W×H (mm)	Gauge distance D×E (mm)
160	12 11 10 6	0.4 0.415 0.433 0.48 0.69	0.18	1.85	4	825	900×740×1045	550×550
200			0.215	2.185	4	870	1055×675×1075	550×550
250			0.26	2.56	4	1055	1165×775×1120	550×550
315			0.305	3.065	4	1305	1360×900×1205	660×660
400			0.37	3.615	4	1555	1285×845×1280	660×660
500			0.43	4.33	4	1775	1385×890×1320	660×660
630			0.51	4.96	4.5	2110	1495×1025×1185	660×660
800			0.63	6	4.5	2485	1510×985×1385	660×660
1000			0.745	8.24	4.5	2915	1650×1150×1465	820×820
1250			0.87	9.6	4.5	3685	1780×1220×1560	820×820
1600			1.05	11.6	4.5	4425	1890×1280×1680	820×820
2000			1.225	14.64	5	5145	1980×1320×1795	820×820
2500			1.44	16.96	5	6240	2100×1300×2065	1070×1070

## Main Technical Parameters

### 12kV and below, 50Hz,three-phase, ONAN, Dyn11, copper winding, OCTC

Capacity (kVA)	Voltage (HV/LV)	No load loss (kw)	Load loss (kw)	Impedance (%)	Weight (kg)	DimensionsL×W×H (mm)	Gauge distance D×E (mm)	
160	24 23 22 20	0.4 0.415 0.433 0.48 0.69	0.29	2.54	5.5	855	910×805×1145	550×550
200			0.34	3	5.5	860	1220×795×1105	550×550
250			0.4	3.52	5.5	950	1275×860×1085	550×550
315			0.48	4.21	5.5	1280	1300×900×1120	550×550
400			0.57	4.97	5.5	1290	1495×990×1240	550×550
500			0.68	5.94	5.5	1555	1570×1045×1250	660×660
630			0.81	6.82	6	1840	1605×1095×1255	660×660
800			0.98	8.25	6	2185	1710×1195×1325	660×660
1000			1.15	11.33	6	2540	1820×1265×1430	820×820
1250			1.38	13.2	6	3125	1880×1285×1625	820×820
1600			1.66	15.95	6	3790	1950×1310×1650	820×820
2000			1.95	19.14	6	4050	2050×1290×1900	820×820
2500			2.34	22.22	6	5500	2200×1450×2000	1070×1070

### 35kV and below, 50Hz,three-phase, ONAN, Dyn11, copper winding, OCTC

Capacity (kVA)	Voltage (HV/LV)	No load loss (kw)	Load loss (kw)	Impedance (%)	Weight (kg)	DimensionsL×W×H (mm)	Gauge distance D×E (mm)	
160	35 33 34.5 31.5	0.4 0.415 0.433 0.48 0.69	0.28	2.82	6.5	1485	1310×1130×1900	550×550
200			0.34	3.32	6.5	1540	1450×820×1970	660×660
250			0.4	3.95	6.5	1720	1620×930×1910	660×660
315			0.48	4.75	6.5	2030	1510×840×2075	660×660
400			0.58	5.74	6.5	2300	1750×870×2095	660×660
500			0.68	6.91	6.5	2630	1795×910×2140	660×660
630			0.83	7.86	6.5	3120	1720×1295×2180	660×660
800			0.98	9.4	6.5	3570	1740×1490×2230	820×820
1000			1.15	11.5	6.5	4380	1960×1510×2330	820×820
1250			1.4	13.9	6.5	4980	1990×1730×2380	820×820
1600			1.69	16.6	6.5	5885	2155×1810×2510	1070×1070
2000			1.99	19.7	6.5	6340	2520×1995×2530	1070×1070
2500			2.36	23.2	6.5	7210	2630×2030×2840	1070×1070

## Main Technical Parameters

### 35kV and below, 50Hz, three-phase, ONAN, Yd11, copper winding, OCTC

Capacity (kVA)	Voltage (HV/LV)		No load loss (kw)	Load loss (kw)	Impedance (%)	Weight (kg)	Dimensions L×W×H (mm)	Gauge distance D×E (mm)		
1000	35	315	1.15	11.5	6.5	3390	2500×1690×2590	1070×1070		
1250			1.4	13.9	6.5	3650	2520×1790×2590	1070×1070		
1600			1.69	16.6	6.5	4220	2560×1910×2620	1070×1070		
2000			2.17	18.3	6.5	4770	2650×1955×2700	1070×1070		
2500			2.56	19.6	6.5	5560	2720×2135×2780	1070×1070		
3150			33	6.3	3.04	23	7	6280	2800×2180×2800	1070×1070
4000			34.5	10.5	3.61	27.3	7	7720	2880×2390×2910	1070×1070
5000			31.5	11	4.32	31.3	7	8650	2980×2520×2990	1070×1070
6300					5.24	35	8	10410	3215×2380×3275	1475×1475
8000					7.2	38.4	8	12650	3360×3170×3280	1475×1475
					8.7	45.3	8	14850	3515×3280×3500	1475×1475
					10	53.8	8	16380	3690×3320×3570	1475×1475
			12.1	65.8	8	20185	4065×3490×3730	1475×1475		

### 35kV and below, 50Hz, three-phase, ONAN, Yd11, copper winding, OLTC

Capacity (kVA)	Voltage (HV/LV)		No load loss (kw)	Load loss (kw)	Impedance (%)	Weight (kg)	Dimensions L×W×H (mm)	Gauge distance D×E (mm)		
3150	35	315	3.23	24.7	7	8960	2865×2180×2750	1070×1070		
4000			3.87	29.1	7	10020	3425×2420×3010	1070×1070		
5000			4.64	34.2	7	11975	3980×3080×3130	1070×1070		
6300			5.63	36.7	8	13560	4000×3100×3170	1070×1070		
8000			33	6.3	7.87	40.6	8	16230	4470×3100×3170	1475×1475
10000			34.5	10.5	9.28	48	8	18640	4520×3590×3570	1475×1475
12500			31.5	11	10.9	56.8	8	21710	4570×3070×3770	1475×1475
16000					13.1	70.3	8	22910	5030×4170×3840	1475×1475
20000					15.5	82.7	8	30840	5070×4000×3910	1475×1475
25000					18.3	97.8	10	38540	5720×4220×3970	1475×1475

The above dimensions and losses will be adjusted according to the product optimization with final drawing approval.

**Main Technical Parameters****Technical Parameters — NEMA / IEEE Ratings****13.8 kV / 480 V / 60Hz, three Phase, ONAN, Dyn11, Copper Winding, OCTC****Standard Efficiency (DOE 2016 Compliant)**

Capacity (kVA)	Voltage (HV/LV)	No-load Loss (kw)	Load Loss @75°C(kw)	Impedance (%)	BIL (kV)	Weight (kg)
300	13.8 / 0.48	0.65	3.90	5.0	95	1,200
500	13.8 / 0.48	0.95	6.50	5.5	95	1,800
750	13.8 / 0.48	1.25	9.20	5.75	95	2,400
1000	13.8 / 0.48	1.55	12.50	6.0	95	3,100
1500	13.8 / 0.48	2.10	18.50	6.0	95	4,200
2000	13.8 / 0.48	2.65	24.00	6.5	95	5,300
2500	13.8 / 0.48	3.20	30.50	6.5	95	6,500
3000	13.8 / 0.48	3.80	36.00	7.0	95	7,800
3750	13.8 / 0.48	4.60	44.50	7.5	95	9,500
5000	13.8 / 0.48	5.80	58.00	8.0	95	12,500

**High Efficiency (Optional)**

Capacity (kVA)	Voltage (HV/LV)	No-load Loss (kw)	Load Loss @75°C(kw)	Impedance (%)	BIL (kV)	Weight (kg)
300	13.8 / 0.48	0.50	3.30	5.0	95	1,350
500	13.8 / 0.48	0.75	5.40	5.5	95	2,050
750	13.8 / 0.48	1.00	7.80	5.75	95	2,700
1000	13.8 / 0.48	1.25	10.80	6.0	95	3,500
1500	13.8 / 0.48	1.70	16.20	6.0	95	4,800
2000	13.8 / 0.48	2.10	21.50	6.5	95	6,000
2500	13.8 / 0.48	2.60	27.80	6.5	95	7,200
3000	13.8 / 0.48	3.10	32.80	7.0	95	8,800
3750	13.8 / 0.48	3.80	40.50	7.5	95	10,800
5000	13.8 / 0.48	4.80	52.00	8.0	95	14,000

## Testing

### Testing

Tests are performed in accordance with IEC60076-1 Or IEEE C57.12.90

#### Routine tests

Each wave liquid transformer undergoes a complete set of routine tests to ensure reliability.

- Measurement of winding resistance
- Measurement of voltage ratio and check of phase displacement
- Measurement of short-circuit impedance and load loss
- Measurement of no-load loss and current
- Applied voltage test
- Induced voltage withstand test
- Auxiliary wiring insulation test
- Insulation oil test
- Pressure sealing test

#### Type tests

A type test is performed in the event of a new design or an important design modification in order to confirm that the quality of the transformer remains compliant to related standards.

Type tests can be carried out according to request.

Wave liquid has passed the following tests

- Temperature-rise test
- Full wave lightning impulse test for the line terminals
- Sound level test
- Measurement of no-load loss and no-load current at 90% and 110% of rated voltage.

#### Special tests

- Pressure deformation test
- Measurement of Zero sequence impedance in three-phase transformers
- Dissolved gas analysis in insulating liquid
- Harmonic measurement of no-load current
- Short-circuit withstand test

All routine, type and special test at a laboratory accredited by CNAS on 35kV, 31.5MVA transformer.

## Specification sheet

Project Name:

RFQ No.

Quantity*	_____ units	Capacity*	_____ kVA
Phase Number*	<input type="checkbox"/> Three phase <input type="checkbox"/> Single phase		
Frequency*	<input type="checkbox"/> 50Hz <input type="checkbox"/> 60Hz		
Applicable standard*	<input type="checkbox"/> IEC 60076	<input type="checkbox"/> IEEE C57.12.00	<input type="checkbox"/> Others: _____
Winding material*	<input type="checkbox"/> Copper	<input type="checkbox"/> Aluminum	<input type="checkbox"/> Others: _____
Rated voltage (No-load voltage)*	High Voltage_____kV	Low Voltage_____kV	
Insulation class	<input type="checkbox"/> A class <input type="checkbox"/> Others: _____		
Connection symbol*	<input type="checkbox"/> Dyn11 <input type="checkbox"/> Dyn5 <input type="checkbox"/> Yyno <input type="checkbox"/> YNd11 <input type="checkbox"/> Others: _____		
Short circuit impedance*	<input type="checkbox"/> 4% <input type="checkbox"/> 5% <input type="checkbox"/> 6% <input type="checkbox"/> 7% <input type="checkbox"/> Others: _____		Tolerance: <input type="checkbox"/> ±10% <input type="checkbox"/> Others: _____
Temperature rise	<input type="checkbox"/> 60k (Oil) / 65k (Winding) <input type="checkbox"/> Others: _____ k (Oil) / _____k (Winding)		
Tap changing method	<input type="checkbox"/> Off-circuit tap changing		Tapping range: <input type="checkbox"/> ±2x2.5% <input type="checkbox"/> 5% <input type="checkbox"/> Others: _____
	<input type="checkbox"/> On-load tap changing		Tapping range: <input type="checkbox"/> ±3x2.5% <input type="checkbox"/> ±4x2.5% <input type="checkbox"/> Others: _____
Cooling mode*	<input type="checkbox"/> ONAN <input type="checkbox"/> ONAF <input type="checkbox"/> KNAN <input type="checkbox"/> KNAF <input type="checkbox"/> Others: _____		
No-load loss	_____ kW	Tolerance: <input type="checkbox"/> ±15%	<input type="checkbox"/> No more than <input type="checkbox"/> Others: _____
Load loss	_____ kW	Tolerance: <input type="checkbox"/> ±15%	<input type="checkbox"/> No more than <input type="checkbox"/> Others: _____
Total loss	_____ kW	Tolerance: <input type="checkbox"/> ±10%	<input type="checkbox"/> No more than <input type="checkbox"/> Others: _____
No-load current	_____ %		
Noise	_____ dB		
Insulation level	LI_____AC_____ / LI_____AC_____		
Insulation oil	<input type="checkbox"/> Mineral oil <input type="checkbox"/> Natural ester oil <input type="checkbox"/> Synthetic ester oil		
Tank type	<input type="checkbox"/> Corrugated type <input type="checkbox"/> Radiator type <input type="checkbox"/> Bell type <input type="checkbox"/> Bucket type		
Tank color	<input type="checkbox"/> RAL7032 <input type="checkbox"/> RAL7035 <input type="checkbox"/> Others: _____		
Gauge distance	<input type="checkbox"/> Regular <input type="checkbox"/> Others: _____		
Service condition	Altitude*	<input type="checkbox"/> not more than 1000m <input type="checkbox"/> Others	
	Max. temp.*	<input type="checkbox"/> 40°C <input type="checkbox"/> Others	
	Min. temp.*	<input type="checkbox"/> -25°C <input type="checkbox"/> Others	
	Indoor/Outdoor*	<input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor	
Accessories	Conservator	<input type="checkbox"/> Yes	<input type="checkbox"/> No    Remark: _____
	Pressure relief valve	<input type="checkbox"/> Yes	<input type="checkbox"/> No    Remark: _____
	Gas relay	<input type="checkbox"/> Yes	<input type="checkbox"/> No    Remark: _____
	Drain valve	<input type="checkbox"/> Yes	<input type="checkbox"/> No    Remark: _____
	Oil Temperature controller	<input type="checkbox"/> Yes	<input type="checkbox"/> No    Remark: _____
	Winding temperature controller	<input type="checkbox"/> Yes	<input type="checkbox"/> No    Remark: _____
	Oil level gauge	<input type="checkbox"/> Yes	<input type="checkbox"/> No    Remark: _____
Wiring box	<input type="checkbox"/> Yes	<input type="checkbox"/> No    Remark: _____	
Other special requirements			

# GEIS

GEIS Electric

Website: [www.geis.tech](http://www.geis.tech)

Hotline: +86 400-820-5234

This catalog may be subjected to revision without prior notice.  
Version No.: GENCLVBM26V4

