



DISTRIBUTION TRANSFORMERS



PRODUCT CATALOG

Powering the Sustainable Future



- 80 years of experience
- optimized and robust design
- reduced dimensions



- de-energized tap changer (off-load) or special version with on-load tap changer (OLTC)



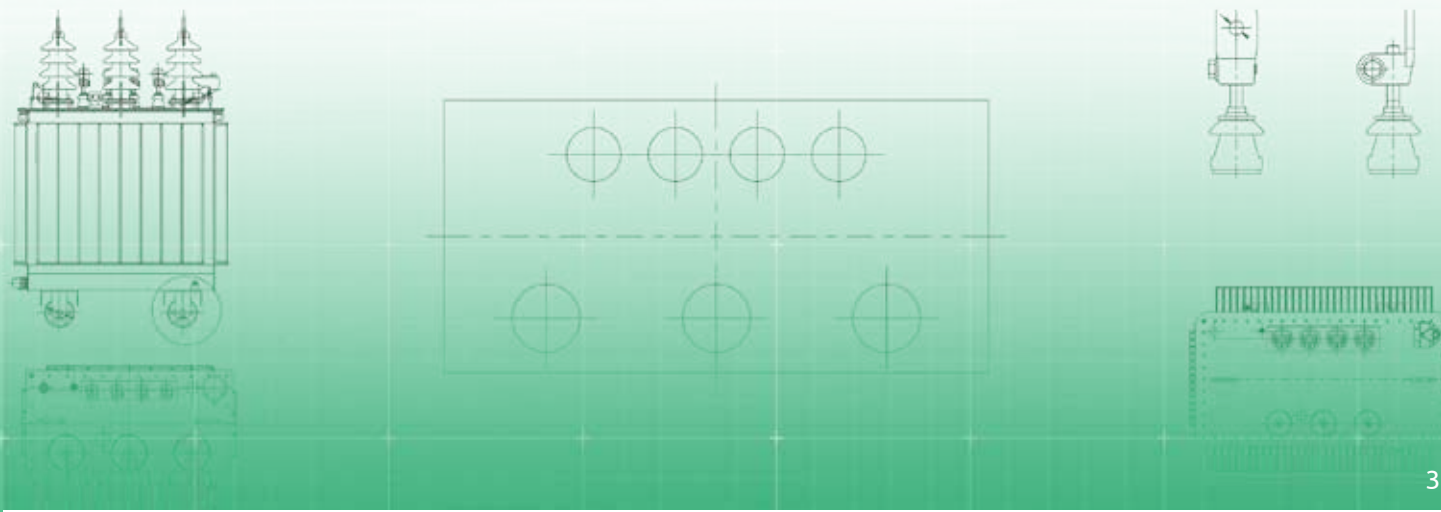
- specially designed for photovoltaic applications, wind farms, charging stations, and energy storage systems



- long maintenance-free service life
- high quality and reliability
- economically optimized



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Company History >>>

Mefta Green Transfo Energy Poland sp. z o.o. is one of the leading companies on the Polish market in the production and supply of medium-voltage transformers for the energy sector.

The main export destinations include France, Germany, Belgium, Austria, Finland, and Slovakia.

Our solutions are used by power plants, industrial enterprises, large corporations, as well as small and medium-sized companies.

The history of the Transformer Plant in Mikołów dates back to 1945, when the Elektrobau company was nationalized (February 28, 1945).

After its transformation into a state-owned plant, a period of dynamic development began — increasing production, expanding the product range, growing the workforce, diversifying markets, and gaining new expertise. During this period, the factory produced both oil-filled and dry-type transformers.

In 1992, the Mikołów Transformer Factory “MEFTA” was privatized and integrated into the structure of the international AEG group (December 17, 1992). From 1993, there was dynamic growth in the production of dry-type resin-insulated transformers, which quickly gained recognition as reliable and environmentally friendly products, replacing previous dry-type technologies.

In 1995, production began in a new facility. In the following years, the plant underwent further transformations: the merger of AEG with GEC Alsthom – leading to a name change to GEC Alsthom (1997), and subsequently to Alstom (1998). In December 2001, the ALSTOM group consolidated its operations in Poland.

In 2004, following the acquisition of the Transmission and Distribution sector from ALSTOM by the AREVA group, the company’s name was changed to AREVA T&D sp. z o.o.



In June 2010, the Schneider Electric group acquired the distribution division from AREVA T&D, including the Transformer Factory in Mikołów.

In 2011, the company was renamed Schneider Electric Energy Poland sp. z o.o., and in 2017 – Schneider Electric Transformers Poland Sp. z o.o.

In January 2023 (January 5, 2023), the factory underwent another ownership change and became part of the Green Transfo group, adopting the name Mefta Green Transfo Energy Poland Sp. z o.o.

Currently, the Mefta Transformer Factory produces the following types of transformers:

- SPHERA DT Distribution Transformers
- Dry-Type Resin Transformers
- TRIHAL Resin Transformers under Schneider Electric license

We also manufacture a wide range of special-purpose transformers, tailored to meet individual customer requirements.

OUR HISTORY



1945

Mefta Established



AEG

1992



SPHERA DT Distribution transformers



■ Distribution Transformers with Power Ratings up to 7000 kVA – 36 kV

Depending on the requirements and standards in each country, our transformers are adapted to the parameters of the distribution network while providing the most economically efficient solutions.

The Green Transfo group also operates a power transformer factory in Turkey, producing transformers with ratings up to 135 MVA and a maximum voltage of 170 kV. This enables us to offer a wide range of products, varying in both power and voltage.

Quality and Experience

With 80 years of experience and over 500,000 oil-filled transformers installed worldwide, you can be confident in investing in proven technology, continuously updated in our research and development centers.

SPHERA DT – the best solution

The standard range of SPHERA DT transformers includes units that are:

- Three-phase (single-phase units available optionally)
- Rated up to 7000 kVA, 36 kV, 50/60 Hz
- With natural cooling (ONAN)
- With standard or reduced noise and/or loss levels

Available designs:

- Hermetic or conservator-type
- Freestanding or pole-mounted (with own suspension or mounted on platforms)

We also offer special-purpose transformers on request, including earthing and converter transformers.

The Green Transfo Group is also a manufacturer of transformers with on-load tap changers (OLTC).

Regardless of the type of transformer you are looking for, SPHERA DT represents the optimal solution, meeting the requirements of international standards such as IEC and the new EU Commission Regulation No. 1783/2019.

Benefits

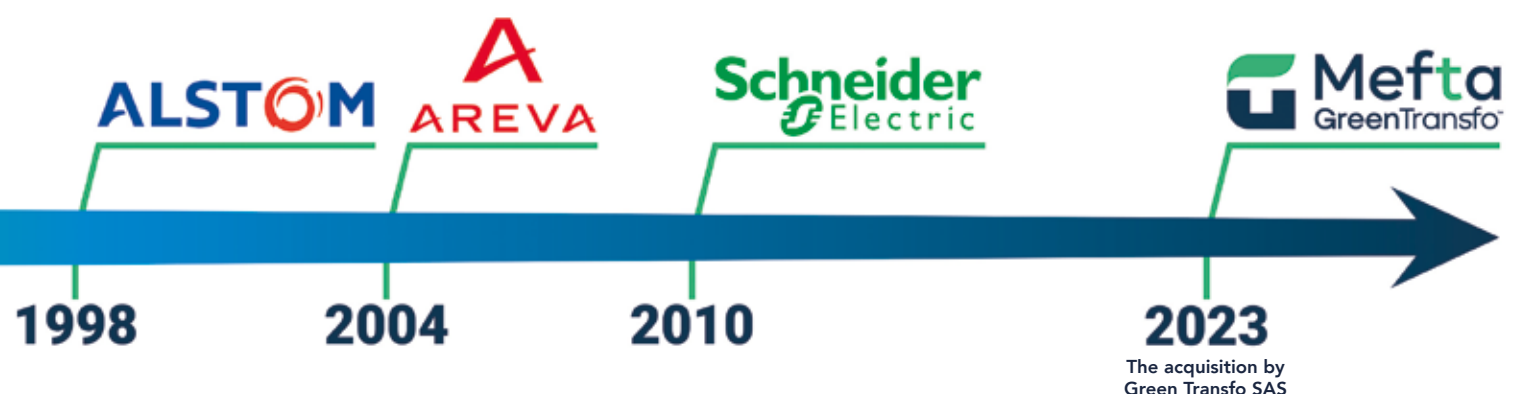
- Wide range of power ratings
- High quality and reliability
- Optimized performance
- Loss optimization
- Proven and optimized technology
- Compact design
- Robust construction
- Long service life and easy recycling

SPHERA DT Capabilities

Depending on the application, environmental conditions, and requirements, you may need different types of transformers.

The SPHERA DT series offers the expected versatility:

- Hermetic or conservator-type transformers
- Indoor applications in buildings, production halls, and compact substations
- Outdoor applications as freestanding or pole-mounted transformers (mounted directly on a pole or on a platform)
- Reduced noise level (suitable for residential and urban areas)
- Normal or reduced loss levels



SPHERA DT Distribution transformers

High Quality and Reliability

Customer satisfaction is our top priority. That is why we focus on improving the production process and reducing delivery times, while maintaining the highest quality standards.

All SPHERA DT transformers are manufactured in accordance with ISO 14001, ISO 9001, and ISO 45001 standards and are subjected to type testing in compliance with applicable IEC standards. Upon customer request, special tests or type test reports can also be provided.

We continuously modernize our production processes, and our internal company policy focuses on ongoing improvement, incorporating the latest global advancements. As a result, our transformers are state-of-the-art and fully meet the highest requirements of the global market, including:

- Fast delivery times
- Enhanced quality
- Improved recyclability
- Reduced dimensions
- Optimized loss and noise levels

Magnetic Core

The transformer cores are made of low-loss cold-rolled magnetic steel laminations. The winding configuration has been

optimized to minimize both losses and no-load current. To reduce noise and vibrations, primarily caused by magnetostriction, the core features a specially designed mechanical structure and optimized electromagnetic parameters.

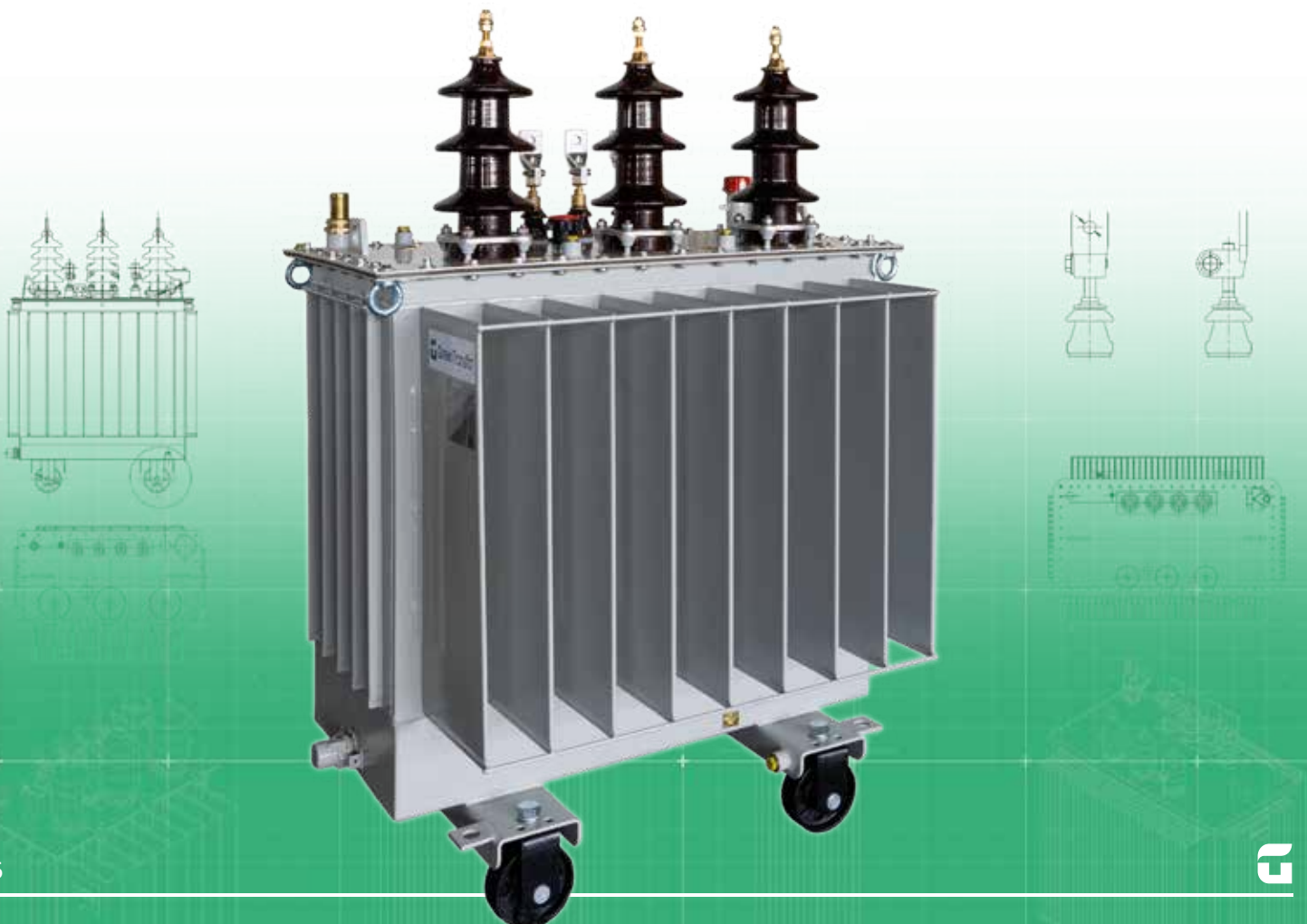
Low-Voltage Winding

The low-voltage windings are made of profiled wires with paper insulation (aluminum or copper), and for higher-power transformers, aluminum or copper strips are used. The winding design ensures excellent dielectric strength, including high lightning impulse resistance and very good short-circuit withstand capability.

To ensure optimal thermal performance, the windings are equipped with a sufficient number of cooling channels. Electrical strength is maintained through a carefully designed insulation channel between the low-voltage (LV) and high-voltage (HV) windings.

High-Voltage Winding

The high-voltage windings are made of round or profiled wires (aluminum or copper), depending on the transformer's power and voltage rating. The winding design ensures excellent dielectric strength, including high lightning impulse resistance and excellent short-circuit withstand capability.



SPHERA DT Distribution transformers

To ensure optimal thermal performance, the windings are equipped with a sufficient number of cooling channels. Layered windings are commonly used, and advances in winding technology allow for automation of the manufacturing process.

Tap-Changing in Transformers with No-Load Tap Changer

Tap-changing allows the transformer to be adapted to specific network voltage parameters as well as to required voltage adjustments on the secondary side. The taps are located on the primary winding and connected to a no-load tap changer (NLTC). The tap changer head is mounted on the transformer cover.

Standard transformers feature tap ranges of $\pm 2 \times 2.5\%$ or $\pm 3 \times 2.5\%$. Tap changes can only be made when the transformer is de-energized.

Tap-Changing in Transformers with On-Load Tap-Changer (OLTC)

Tap-changing enables the transformer to adjust to temporary fluctuations in network voltage, ensuring that the desired secondary voltage is consistently maintained. The taps are located on the primary winding and connected to the on-load tap-changer.

The tap changer head is mounted on the transformer cover and includes a motor drive for tap switching. The taps are operated by a controller, which can function in manual, automatic, or remote mode.

Standard transformers feature a tap range of $\pm 4 \times 2.5\%$.

Tank Design

For distribution transformers, the most common design is the corrugated tank construction. The tank's tightness is verified through a pressure test. In hermetic transformers, the corrugated wall design allows for compensation of the coolant's thermal expansion.

Upon customer request, the transformer tank can be equipped with lifting lugs for pole mounting.

Anti-Corrosion Protection

Anti-corrosion protection is a key aspect of our quality standards. The protective coating system is selected based on environmental conditions (humidity, pollution, etc.). Upon customer request, we can supply transformers with hot-dip galvanization or paint coatings of C5H class, including cathodic protection.



SPHERA DT Distribution transformers

DISTRIBUTION TRANSFORMERS	HERMETIC (conservator-free or with conservator)
Rated Power	up to 7000 kVA *
Insulation Levels	According to IEC, for voltages UM = 1.1 – 3.6 – 7.2 – 12 – 17.5 – 24 – 36 kV
Number of Phases	Three-phase (single-phase available optionally)
Tap Range	±2×2.5% or ±3×2.5% (other tap ranges available upon request)
Voltage Regulation	De-energized tap changing (no-load tap changer), with a special version featuring an on-load tap changer (OLTC)
Rated Secondary Voltage	From 220 to 800 V (standard: 400, 420 V)
Impedance voltage	U _k = 4% or 4.5% for ratings ≤ 630 kVA U _k = 6% for ratings ≥ 630 kVA Other values available upon request
Rated Frequency	50 Hz (60 Hz available upon request)
Vector group	Dyn5 or Dyn11 Other connection groups are available upon request, in accordance with IEC or PN-EN standards.
Insulation Thermal Class	Class A according to IEC 60085
Temperature Rise	Average winding temperature rise: 65 K Top-oil temperature rise: 60 K Based on ambient temperatures according to EN 60076-1 Ambient air temperatures should not exceed: • 20°C – annual average • 30°C – daily average • 40°C – maximum • -20°C – minimum For other ambient temperatures, transformers with reduced temperature rise are available (upon special request).
Cooling Type	ONAN, KNAN
Insulating Fluid	Non-inhibited mineral oil in compliance with IEC requirements. Upon special request: inhibited mineral oil, vegetable oil, or ester-based coolant.
Short-Circuit Withstand	The transformers can withstand thermal and dynamic short-circuit effects on the secondary side in accordance with IEC 60076-5.
Noise Level	Measurement (sound pressure according to A-weighted curve L _{pA}) and calculation (sound power according to A-weighted curve L _{wA}) of acoustic parameters are carried out in accordance with IEC 60076-10. Noise level requirements comply with national regulations or customer specifications.
Installation Location	Indoor and outdoor
HV and LV Terminals	HV terminals: porcelain bushings or connector-type bushings LV terminals: porcelain bushings Upon request: quick-connect cable terminals, busbar terminals (flags), bushing covers, and cable boxes
Accessories	• Standard: oil level indicator, pressure relief valve, oil fill valve, oil drain valve, grounding terminals, lifting lugs, nameplate, base with movable wheels • Optional: thermometer with contacts, protection devices (DGPT-2 or DMCR), vibration dampers • For conservator-type versions: Buchholz relay, oil level indicator, breather

* 4000 – 7000 kVA available for photovoltaic (PV) installations

SPHERA DT Distribution transformers

Standards

The transformers comply with the following standards:

- PN-EN 50464-1
- PN-EN 60076-1 to 10
- EU Commission Regulation No. 1783/2019. The manufacturer guarantees that the transformers are made from components free of PCBs.

Description

Three-phase distribution transformers, 50 Hz / 60 Hz, with the following technical specifications:

- Type: Hermetic
- Cooling: ONAN
- Intended use: indoor and outdoor applications
- Protective Coating: Corrosion resistance class C3–C5H
- Tank: Painted, color RAL 7033 or other according to customer specifications
- Degree of Protection: IP00
- Windings: Copper or aluminum

Enhanced Insulation

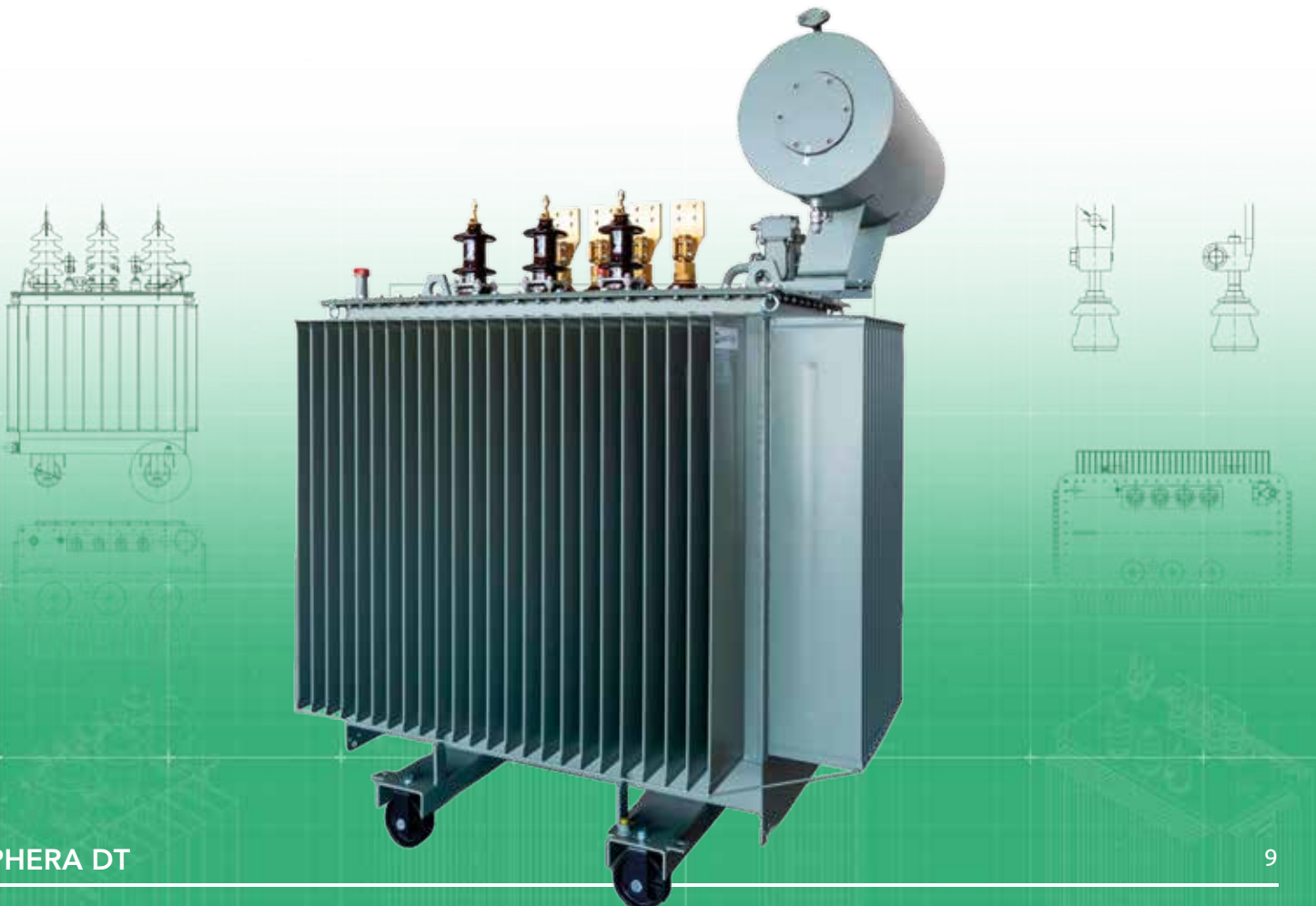
Increased LV winding insulation strength – AC 8 kV – standard.

Standard Equipment

- Seven- or five-position tap changer mounted on the cover
- 3 porcelain insulators on the HV side
- 4 porcelain insulators on the LV side with customizable terminals
- 4 movable wheels
- Lifting lugs
- Pulling lugs
- Grounding terminals on the cover
- Oil fill and pressure relief valve
- Oil level indicator
- Drain valve
- Nameplate

Optional Equipment

- Plug-in type HV connectors
- TOGA-type connection terminals
- LV terminal covers
- Protection devices (DMCR or DGPT2)
- Thermometer pocket
- Two-contact thermometer
- Conservator design for ratings 800–2,000 kVA



SPHERA DT Distribution transformers

Al/Al – losses compliant with Stage II (2021) of EU Commission Regulation No. 1783/2019

Distribution Transformers with Insulation Levels ≤ 24 kV, Rated Power from 40 to 4000 kVA*

Electrical Specifications

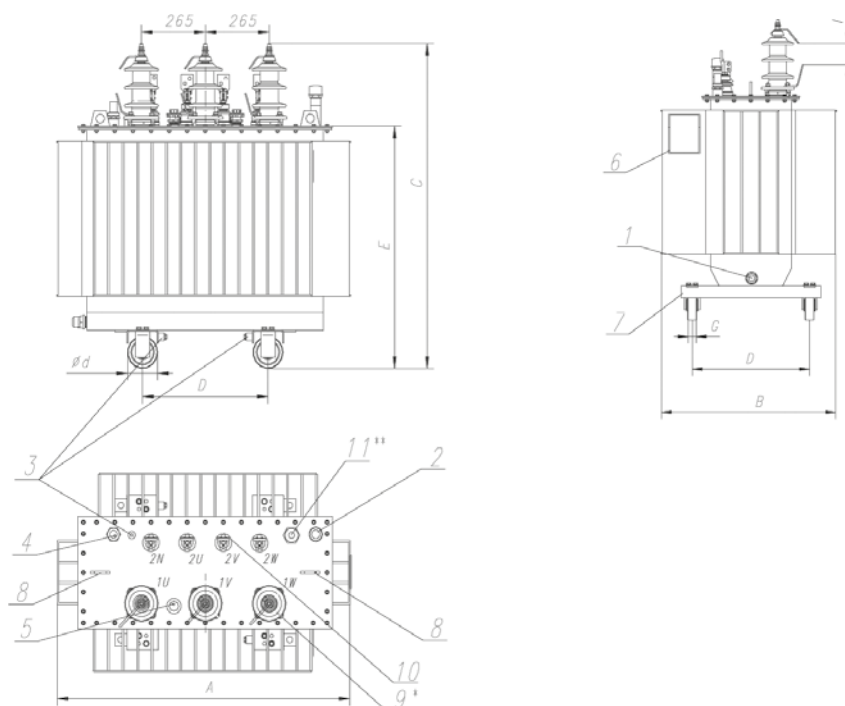
Rated Power (kVA)	40	63	100	160	250	400	630	800	1000	1250	1600	2000	2500
HV Voltage (kV)	6 ÷ 22												
LV Voltage (V)	400 or 420												
HV Insulation Level (kV)	According to network requirements												
HV Tap Range (%)	±2x2.5%												
Vector group	Dyn1, Dyn5, Dyn11 (other configurations available upon request)												
Maximum Losses	Ao-10%, Ak												
No-Load Losses (W)	73	93	130	189	270	387	540	585	693	855	1080	1305	1575
Load Losses at 75°C (W)	690	880	1250	1750	2350	3250	4600	6000	7600	9500	12000	15000	18500
Impedance voltage (%)	4	4	4	4	4	4	6	6	6	6	6	6	6

For transformers intended for markets outside the European Union, it is possible to offer alternative loss levels.

Dimensions and Weight

Rated Power (kVA)	40	63	100	160	250	400	630	800	1000	1250	1600	2000	2500
Dimensions (mm)													
A	880	990	1040	1100	1220	1250	1490	1520	1570	1670	1680	2160	2300
B	680	700	740	760	840	890	950	1010	1030	1080	1310	1350	1370
C	1290	1390	1430	1450	1540	1660	1790	1890	1920	2100	2060	2270	2480
D	420	520	520	520	520	670	670	670	820	820	820	1070	1070
E	860	920	990	1010	1070	1180	1280	1360	1410	1520	1590	1840	2110
G	40	40	40	40	40	40	40	40	40	40	50	70	70
d	125	125	125	125	125	125	125	125	125	125	160	200	200
Weight (kg)													
Oil	110	110	140	180	240	310	440	580	710	810	880	1080	1250
Total	510	690	880	1050	1400	1840	2610	3350	3690	4260	4940	5840	7260

* Ratings 3150 – 4000 kVA require an individual quotation



Approximate Weights and Dimensions

Contractual obligations apply only to the final drawings provided in response to an order.

SPHERA DT Distribution transformers

Cu/Cu losses compliant with Stage II (2021) of EU Commission Regulation No. 1783/2019

Distribution Transformers with Insulation Levels ≤ 24 kV, Rated Power from 40 to 4000 kVA*

Electrical Specifications

Rated Power (kVA)	40	63	100	160	250	400	630	800	1000	1250	1600	2000	2500
HV Voltage (kV)	6 ÷ 22												
LV Voltage (V)	400 or 420												
HV Insulation Level (kV)	According to network requirements												
HV Tap Range (%)	±2x2.5%												
Vector group	Dyn1, Dyn5, Dyn11 (other configurations available upon request)												
Maximum Losses	Ao-10%, Ak												
No-Load Losses (W)	73	93	130	189	270	387	540	585	693	855	1080	1305	1575
Load Losses at 75°C (W)	690	880	1250	1750	2350	3250	4600	6000	7600	9500	12000	15000	18500
Impedance voltage (%)	4	4	4	4	4	4	6	6	6	6	6	6	6

For transformers intended for markets outside the European Union, it is possible to offer alternative loss levels.

Dimensions and Weight

Rated Power (kVA)	40	63	100	160	250	400	630	800	1000	1250	1600	2000	2500
Dimensions (mm)													
A	900	900	900	940	1030	1140	1340	1500	1460	1680	1810	2000	2070
B	660	680	700	700	780	870	930	990	1080	1160	1200	1350	1350
C	1040	1160	1240	1310	1330	1410	1470	1540	1640	1640	1750	2000	2210
D	420	520	520	520	520	670	670	670	820	820	820	1070	1070
E	740	760	800	920	890	1000	1010	1120	1180	1240	1380	1510	1750
G	40	40	40	40	40	40	40	40	40	40	40	50	50
d	125	125	125	125	125	125	125	125	125	125	125	160	160
Weight (kg)													
Oil	90	100	110	140	160	240	300	350	430	470	570	690	1070
Total	460	580	720	880	1150	1630	2330	2620	3160	3310	3880	5150	6210

*** 3150 - 4000 kVA require an individual quotation**



Approximate weights and dimensions

If the value of any electrical parameter (HV voltage, LV voltage, short-circuit voltage uk%, vector group, additional voltage, etc.) falls outside the values specified in the tables, the transformer weight and overall dimensions will also change. In such cases, it is recommended to contact a Mefta Green Transfo representative.

SPHERA DT Distribution transformers

Al/Al – losses compliant with Stage II (2021) of EU Commission Regulation No. 1783/2019 for photovoltaic installations

Distribution Transformers with Insulation Levels ≤ 24 kV, Rated Power from 630 to 7000 kVA*

Electrical specifications

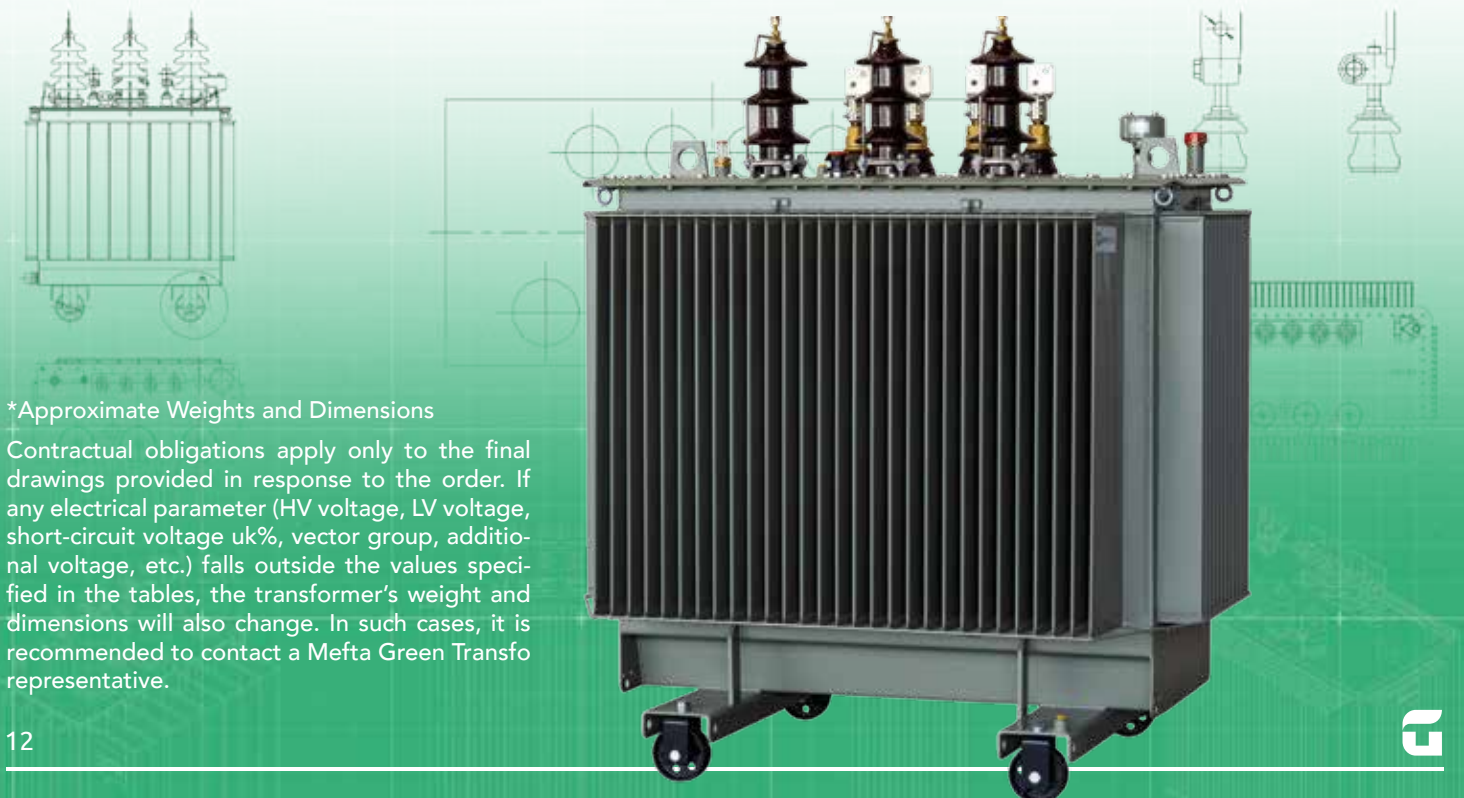
Rated Power (kVA)	630	800	1000	1250	1600	2000	2500
HV Voltage (kV)	15 ÷ 22						
LV Voltage (V)	800						
HV Insulation Level (kV)	According to network requirements						
HV Tap Range (%)	$\pm 2 \times 2.5\%$						
Vector group	Dyn1, Dyn5, Dyn11 (other configurations available upon request)						
Maximum Losses	Ao-10%, Ak						
No-Load Losses (W)	540	585	693	855	1080	1305	1575
Load Losses at 75°C (W)	4600	6000	7600	9500	12000	15000	18500
Impedance voltage (%)	6	6	6	6	6	6	6

For transformers intended for markets outside the European Union, it is possible to offer alternative loss levels.

Dimensions and weight

Rated Power (kVA)	630	800	1000	1250	1600	2000	2500
Dimensions (mm)							
A	1330	1390	1420	1600	1710	2020	2180
B	890	950	980	1030	1140	1350	1470
C	1640	1730	1740	1890	1980	2130	2270
D	670	670	820	820	820	1070	1070
E	1280	1360	1410	1520	1590	1840	2110
G	40	40	40	40	50	70	70
d	125	125	125	125	160	200	200
Weight (kg)							
Oil	440	580	710	810	880	1080	1250
Total	2080	2530	2590	3300	3880	4570	5370

*** 3150 - 7000 kVA require an individual quotation**



*Approximate Weights and Dimensions

Contractual obligations apply only to the final drawings provided in response to the order. If any electrical parameter (HV voltage, LV voltage, short-circuit voltage uk%, vector group, additional voltage, etc.) falls outside the values specified in the tables, the transformer's weight and dimensions will also change. In such cases, it is recommended to contact a Mefta Green Transfo representative.

OLTC Distribution Transformers

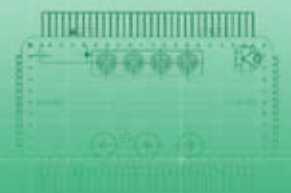


OLTC (On-Load Tap Changer) transformers are hermetically sealed oil-filled distribution transformers designed to step down medium voltage (6 kV to 24 kV) to low voltage (400 V to 420 V).

The OLTC transformer is equipped with an ECOTAP VPD III on-load tap changer from Maschinenfabrik Reinhausen. The tap changer is designed for connection to 9 taps, allowing a 9-step regulation range, for example $\pm 4 \times 2.5\%$. The tap changer consists of three parts: the switching section located under the tank cover and immersed in oil, the motor drive for tap changing mounted on the tank cover, and the controller, which is placed near the transformer, usually on the wall of the transformer room or on a utility pole in an additional cabinet. The tap changer is equipped with vacuum interrupter chambers that extinguish the arc during tap changes, ensuring long-lasting and trouble-free operation of the transformer.

The tap changer controller automatically changes taps to maintain a constant target voltage at the transformer's LV terminals. The control system can be expanded so that the transformer voltage depends on the transformer load or on the voltage in remote low-voltage networks. Manual operation is also possible, allowing the operator to select the tap, as well as remote control via a SCADA system.

OLTC transformers are designed for overhead installation on medium-voltage pole platforms or in conventional transformer substations.



Cast-Resin Transformers



Cast-Resin Transformers with Power Ratings up to 6000 kVA – 36 kV

Customers around the world are seeking environmentally friendly solutions for their power networks that are safe for both personnel and the environment. In response to the growing need to reduce environmental impact and protect natural resources, Mefta Green Transfo contributes by manufacturing safe and eco-friendly RESICAST cast-resin transformers of our own design.

Our range also includes TRIHAL cast-resin transformers, manufactured under the current licensing agreement with the previous owner, Schneider Electric.



Their high quality and reliability make cast-resin transformers an ideal solution for infrastructure projects such as:

- Transmission and distribution substations
- Public utility buildings
- High-rise developments

They are also well-suited for specialized installations, including:

- Photovoltaic (PV) farms
- Rectifier systems
- Industrial power applications

Cast-Resin Transformers

– Safe and Environmentally Friendly Solution

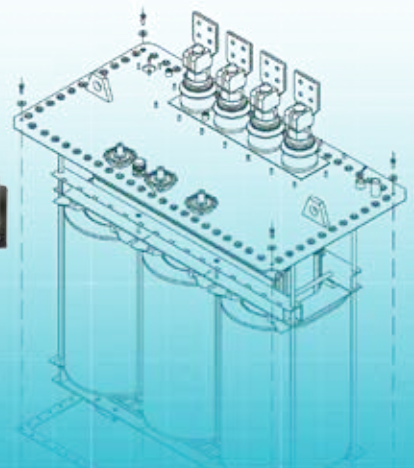
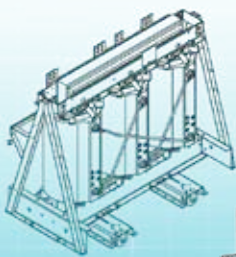
Our range of cast-resin transformers meets all your requirements for distribution transformers.

They are available in three-phase versions and offered across a wide range of specifications: rated power up to 6000 kVA, voltage up to 36 kV, frequency 50/60 Hz, with natural cooling (AN) for continuous operation in indoor environments (with optional forced-air cooling, AF).

Quality Assurance

Our transformer manufacturing plants are certified in accordance with ISO 14001, ISO 9001, and ISO 45001.

Each transformer undergoes factory testing in a certified test station upon completion.



Cast-Resin Transformers

Environmentally Friendly

Since environmental protection is a priority for us, our products are designed to meet the latest environmental standards introduced by governments and national and international institutions. The use of cast-resin transformers eliminates the risk of leaks of flammable or polluting substances.

For a Modern World

Minimizing the space required to install a transformer and the associated construction costs has become a key factor in most projects. Whether it involves a new office building in the city center, the expansion of an industrial process, or a wind farm project, the compact design of the transformer provides a necessary and cost-effective solution.

Unique vacuum-cast high-voltage coils and advanced technology used in low-voltage winding construction ensure that the transformers deliver reliable performance and the required operational characteristics for technologically advanced applications.

FACTORY TESTING

Standard Tests & Dielectric Measurements

Winding Resistance

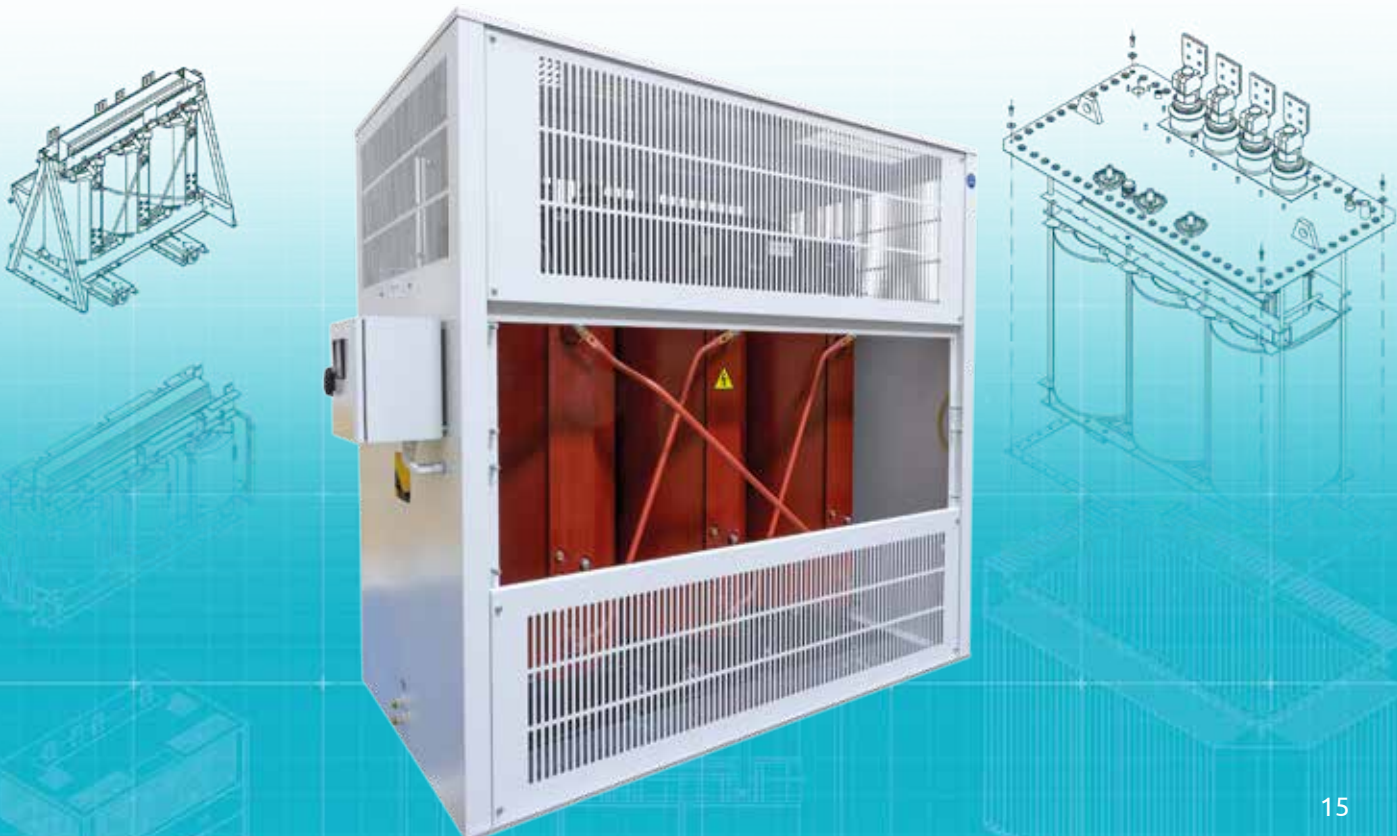
- Voltage Ratio & Vector Group
- No-Load Losses & No-Load Current
- Impedance voltage
- Load Losses
- Dielectric Testing
- Partial Discharge Measurement

Type Tests

In addition to the standard factory tests at Mefta Green Transfo, additional type tests can be performed upon customer request, including impulse voltage testing and heating tests.

Special Tests

Noise level testing can be performed in our laboratory upon request. Other specialized tests can also be arranged after confirming the scope and conditions with the customer.



Cast-Resin Transformers

Magnetic Core

The transformer core is made of double-sided insulated, low-loss magnetic steel. Its lamination design is optimized to minimize both core losses and the transformer's no-load current. The core surface is protected against corrosion with a high-temperature-resistant insulating varnish. The use of insulating varnish, combined with a carefully designed core mounting structure, ensures low noise levels during transformer operation.

Low-Voltage Winding (LV)

The LV winding is made of aluminum or copper tape with high-quality thermosetting insulation. Its design provides excellent dielectric strength, including high lightning impulse resistance and superior short-circuit withstand capability. For improved cooling, vertical ventilation channels can be incorporated into the LV winding.

High-Voltage Winding (HV)

The HV winding is constructed from aluminum or copper tape (or wire) and epoxy resin. The wound winding is placed in a mold and vacuum-cast with resin. The resin is reinforced with glass fiber, significantly enhancing mechanical stability under thermal overloads and improving resistance to shocks.

HV/LV Winding Assembly

The windings are mounted concentrically on the core. The LV winding is mounted directly on the core, while the HV winding is spaced using inserts that also act as dampers to compensate for the thermal expansion of the windings. This arrangement ensures structural stability and prevents the windings from shifting during transport and installation.



Cast-Resin Transformers

CAST-RESIN TRANSFORMERS	VACUUM TECHNOLOGY
Rated Power	up to 6000 kVA
Insulation Levels	According to PN-EN IEC 60076-11 for voltages $U_m = 1.1 - 3.6 - 7.2 - 12 - 17.5 - 24 - 36$ kV
Number of Phases	3-phase (single-phase available optionally)
Regulation Range	$\pm 2 \times 2.5\%$ (other regulation ranges available optionally)
Voltage Regulation	Off-Load
Rated Primary/Secondary Voltage	From 6.3 kV to 31.5 kV / From 280 V to 800 V (standard: 400, 420 V)
Impedance voltage	$U_k = 6\%$ (other U_k levels available optionally)
Rated Frequency	50 Hz (60 Hz available on request)
Vector Group	Dyn1, Dyn5, Dyn11 Other vector groups available on request, in accordance with PN-EN standards
Thermal Insulation Class	Class F or Class H
Temperature Rise	The permissible winding temperature rise is 100 K for Class F and 125 K for Class H. Reduced winding temperature rise is available upon special request. For ambient temperatures according to PN-EN 60076-1, the air temperature should not exceed: • 20°C average annual temperature • 30°C average monthly temperature • 40°C maximum ambient temperature • -25°C minimum ambient temperature Other permissible ambient temperature levels can be provided upon special request.
Cooling Type	AN, AN/AF
Enclosures	Protection class: IP20, IP21, IP23, IP31, or other on request
Short-Circuit Withstand	Transformers withstand thermal and dynamic effects of short circuits in accordance with PN-EN 60076-5
Partial Discharge	< 10 pC, measured for each transformer in a test chamber in accordance with PN-EN IEC 60076-11
Noise Level	Measurements (sound pressure according to A-weighting curve L_pA) and calculations (sound power according to A-weighting curve L_wA) of acoustic parameters are performed in accordance with IEC 60076-10. Noise level requirements comply with national regulations or customer specifications.
Installation Location	Indoor, standard up to 1000 m above sea level
HV and LV Terminals	HV terminals: connected via cables. LV terminals: connected via cables or busbar.
Accessories	• Standard: PTC temperature sensors with two-stage protection, chassis with movable wheels, 2 grounding terminals. • Optional: PT100 sensors with programmable temperature protection thresholds and visualization of measured temperatures, optional 4–20 mA analog output or RS485 Modbus digital interface, HV winding temperature monitoring, optional fan cooling system with control unit, surge arresters on LV and HV sides, anti-vibration pads under wheels.

Cast-Resin Transformers

Construction

Transformers are manufactured in accordance with the following standards:

- PN-EN 60076-11
- PN-EN 50588-1

Loss levels comply with:

- PN-EN 50541-1
- European Commission Regulation No. 1783/2019

Partial discharge level:

- ≤ 10 pC

**Enhanced insulation strength for LV windings:
AC 10 kV (standard)**

Standard Design Description

Dry-type cast-resin transformer – standard distribution type, 50 Hz, 3-phase with the following specifications:

- Indoor design
- Thermal insulation class F – permissible winding temperature rise 100 K
- Maximum ambient temperature: 40°C
- Installation altitude ≤ 1000 m
- HV windings vacuum-cast with resin
- Natural cooling (AN)
- Core and frame corrosion-protected with painting

Standard Equipment:

Transformer without enclosure (IP00):

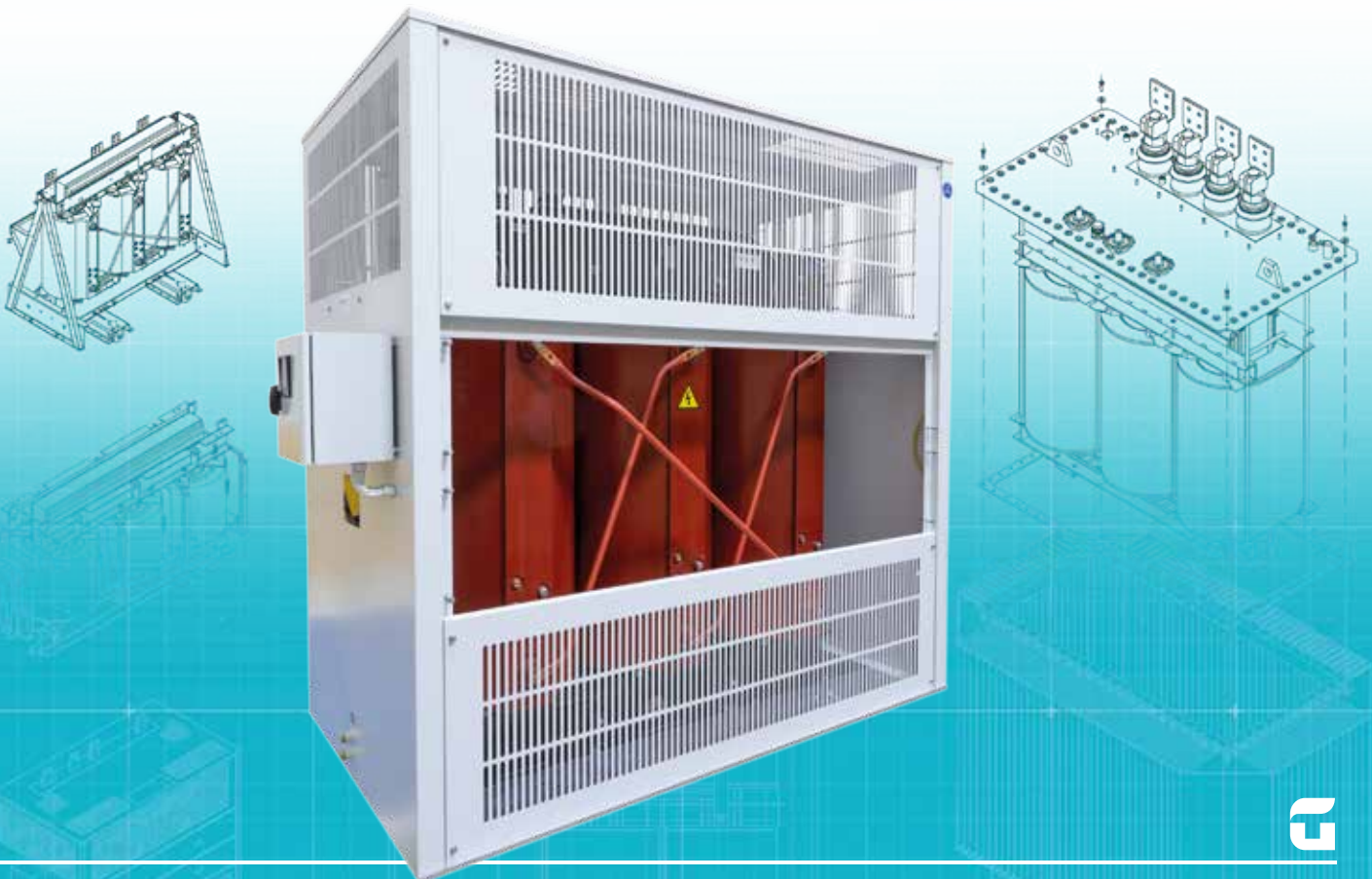
- No-load tap changer on the HV side
- 4 rotating wheels in both directions
- 4 lifting and transport holes
- 2 grounding terminals
- 6 PTC sensors and type Z temperature protection
- Nameplate
- Technical documentation (DTR), dimensional drawing, test report, and warranty card

Transformer with Enclosure (IP31):

- Enclosure rating: IP31 (enclosure bottom: IP21)
- 2 lifting points
- Access to tap changer and terminals by removing panels
- Standard enclosure color: RAL7035
- Includes all standard equipment as for IP00

Optional Equipment:

- PT100 sensors and temperature protection with type T display or other types
- Fans allowing periodic overloads up to 40%
- Surge arresters, terminals for portable grounding, vibration isolators under wheels
- Connector terminals
- Other enclosure options: IP20, IP21, or IP23



Cast Resin Transformers

Al/Al losses compliant with Stage II (2021) of EU Commission Regulation No. 1783/2019

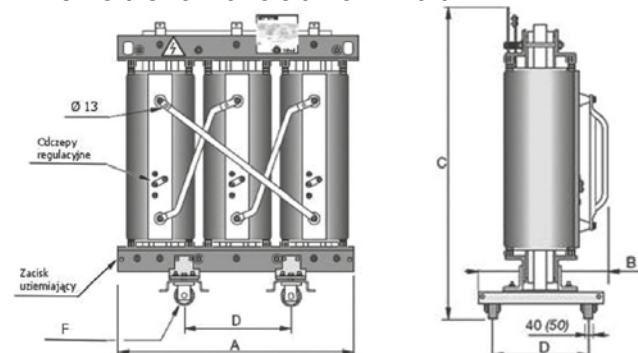
Cast Resin Transformers with Insulation Levels ≤ 24 kV, Rated Power from 250 to 6000 kVA*

Technical Specifications

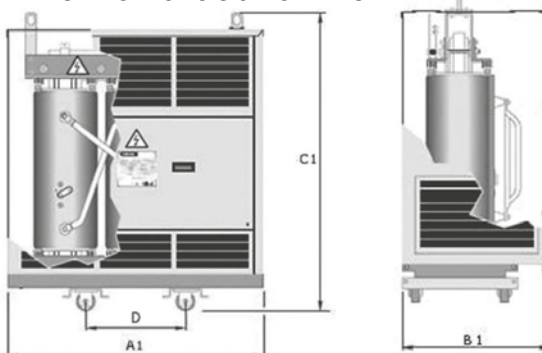
Power (kVA)	250	400	630	800	1000	1250	1600	2000	2500
HV Voltage (kV)	6 ÷ 22								
LV Voltage (V)	400 or 420								
HV Insulation Level (kV)	7.2 ÷ 24								
HV Withstand Voltage (kV)	In compliance with utility network requirements								
LV Withstand Voltage (kV)									
HV Tap Changer Regulation (%)	±2×2.5 (with no voltage applied)								
Vector Group	Dyn1, Dyn5 or Dyn11 (others as agreed)								
Maximum Losses	Ao-10%Ak								
No-Load Losses (W)	468	675	990	1170	1395	1620	1980	2340	2790
Load Losses at 120°C (W)	3400	4500	7100	8000	9000	11000	13000	16000	19000
Short-Circuit Voltage (%)	6	6	6	6	6	6	6	6	6
THDi (%)	≤5	≤5	≤5	≤5	≤5	≤5	≤5	≤5	≤5

For transformers intended for markets outside the European Union, it is possible to offer a different loss level.

Without enclosure IP00



With enclosure IP31



Power (kVA)	250	400	630	800	1000	1250	1600	2000	2500
Without Enclosure IP00									
Dimensions - A (Length)	1305	1420	1540	1605	1640	1760	1800	1900	2025
(mm) - B (Width)	725	815	820	835	945	945	950	1195	1195
- C (Height)	1345	1435	1625	1775	1940	1830	2010	2120	2190
- D (Wheelbase)	520	520	670	670	820	820	820	1070	1070
Weight (kg)	1165	1550	1900	2270	2705	3190	3825	4600	5660
With Enclosure IP31									
Dimensions - A1 (Length)	1710	1800	1900	1930	1960	2150	2140	2270	2360
(mm) - B1 (Width)	990	1020	1100	1060	1070	1170	1140	1230	1230
- C1 (Height)	1740	2050	2300	2170	2320	2480	2400	2580	2670
- D (Wheelbase)	520	520	670	670	820	820	820	1070	1070
Total Weight (kg)	1460	1810	2180	2620	3020	3510	4250	5060	6120

*** 3150 – 6000 kVA require an individual quotation**

Approximate Weights and Dimensions

Contractual obligations apply only to the final drawings provided in response to an order.

If the value of any electrical parameter (HV voltage, LV voltage, short-circuit voltage %, vector group, additional voltage, etc.) exceeds the values listed in the tables, the transformer's weight and dimensions will also change. In such cases, it is recommended to contact a Mefta Green Transfo representative.

Cast Resin Transformers

Cu/Cu – losses compliant with Stage II (2021) of EU Commission Regulation No. 1783/2019

Cast Resin Transformers with Insulation Levels ≤ 24 kV, Rated Power from 250 to 6000 kVA*

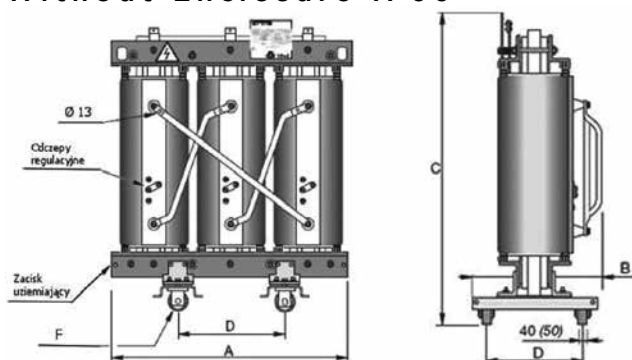
Electrical specifications

Power (kVA)	250	400	630	800	1000	1250	1600	2000	2500
HV Voltage (kV)	6 ÷ 22 kV								
LV Voltage (V)	400 or 420								
HV Insulation Level (kV)	7.2÷24								
HV Withstand Voltage (kV)	in compliance with utility network requirements								
LV Withstand Voltage (kV)	min. AC-10								
HV Tap Changer Regulation (%)	2×2.5 when de-energized								
Vector Group	Dyn1, Dyn5 or Dyn11 (other configurations available upon request)								
Maximum Losses	Ao-10%Ak								
No-Load Losses (W)	468	675	990	1170	1395	1620	1980	2340	2790
Load Losses at 120°C (W)	3400	4500	7100	8000	9000	11000	13000	16000	19000
Impedance voltage (%)	6	6	6	6	6	6	6	6	6
THDi (%)	≤5	≤5	≤5	≤5	≤5	≤5	≤5	≤5	≤5

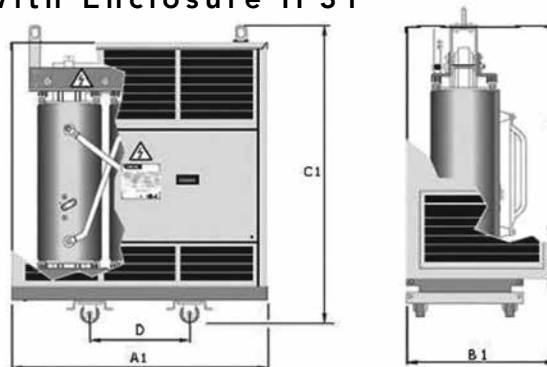
For transformers intended for markets outside the European Union, it is possible to offer a different loss level.

Dimensions and Weight

Without Enclosure IP00



With Enclosure IP31



Power (kVA)	250	400	630	800	1000	1250	1600	2000	2500
Without Enclosure IP00									
Dimensions - A (Length)	1210	1310	1390	1500	1530	1550	1740	1770	1810
(mm) - B (Width)	670	800	800	800	950	950	950	1230	1230
- C (Height)	1330	1380	1420	1590	1740	1900	1960	2150	2170
- D (Wheelbase)	520	520	670	670	820	820	820	1070	1070
Weight (kg)	1210	1510	1830	2340	2730	3220	4090	4690	5330
With Enclosure IP31									
Dimensions - A1 (Length)	1710	1810	1890	1870	1930	1950	2040	2070	2090
(mm) - B1 (Width)	890	1010	1000	1060	1170	1170	1170	1470	1510
- C1 (Height)	1830	1700	1780	1950	2060	2270	2290	2470	2440
- D (Wheelbase)	520	520	670	670	820	820	820	1070	1070
Total Weight (kg)	1400	1750	2050	2590	2990	3540	4490	5120	6090

*** 3150 - 6000 kVA require an individual quotation**

Approximate Weights and Dimensions

Contractual obligations apply only to the final drawings provided in response to an order.

If the value of any electrical parameter (HV voltage, LV voltage, short-circuit voltage %, vector group, additional voltage, etc.) exceeds the values listed in the tables, the transformer's weight and dimensions will also change. In such cases, it is recommended to contact a Mefta Green Transfo representative.

Cast Resin Transformers

Al/Al – losses compliant with Stage II (2021) of EU Commission Regulation No. 1783/2019 for photovoltaic installations

Cast Resin Transformers with Insulation Levels ≤ 24 kV, Rated Power from 250 to 6000 kVA*

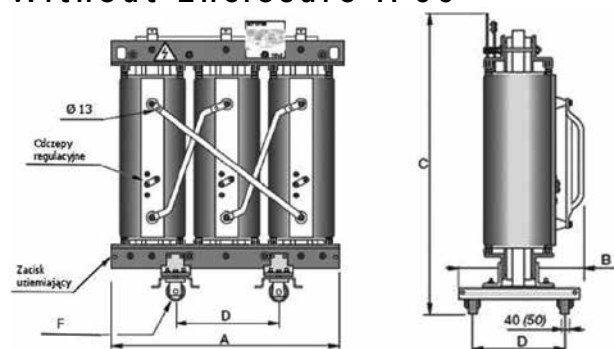
Electrical specifications

Power (kVA)	250	400	630	800	1000	1250	1600	2000	2500
High Voltage (kV)	15 ÷ 22								
Low Voltage (V)	800								
HV Insulation Level (kV)	17,5 ÷ 24								
HV Withstand Voltage (kV)	According to utility requirements minimum AC-10								
LV Withstand Voltage (kV)									
HV Tap Changer Regulation (%)	$\pm 2 \times 2.5$ (off-circuit)								
Connection Group	Dyn1, Dyn5 or Dyn11 (others to be agreed)								
Maximum Losses	Ao-10%Ak								
No-load Losses (W)	468	675	990	1170	1395	1620	1980	2340	2790
Load Losses at 120°C (W)	3400	4500	7100	8000	9000	11000	13000	16000	19000
Short-Circuit Voltage (%)	6	6	6	6	6	6	6	6	6
Total Harmonic Distortion Current THDi (%)	5	5	5	5	5	5	5	5	5
Total Harmonic Distortion Voltage THDu (%)	8	8	8	8	8	8	8	8	8
HV/LV Screen	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

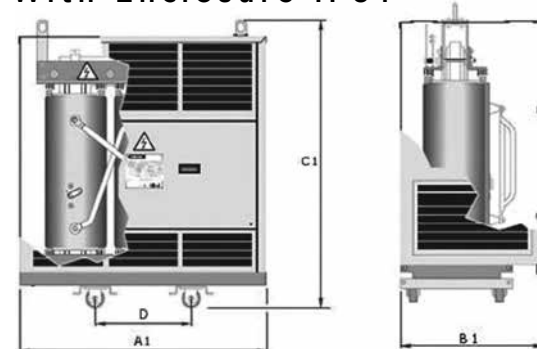
For transformers intended for markets outside the European Union, it is possible to offer a different loss level.

Dimensions and weight

Without Enclosure IP00



With Enclosure IP31



Power (kVA)	250	400	630	800	1000	1250	1600	2000	2500
Without Enclosure IP00									
Dimensions - A (Length)	1320	1450	1440	1530	1630	1680	1740	1820	1960
(mm) - B (Width)	700	800	800	810	950	950	950	1230	1230
- C (Height)	1390	1500	1710	1870	1910	1930	2080	2160	2220
- D (Wheelbase)	520	520	670	670	820	820	820	1070	1070
Weight (kg)	1160	1650	1870	2340	2730	3070	3640	4240	5120
With Enclosure IP31									
Dimensions - A1 (Length)	1640	1840	1840	1840	2090	2090	2090	2340	2340
(mm) - B1 (Width)	1030	1030	1030	1030	1180	1180	1180	1280	1280
- C1 (Height)	1900	2150	2150	2150	2330	2330	2330	2700	2700
- D (Wheelbase)	520	520	670	670	820	820	820	1070	1070
Total Weight (kg)	1320	1820	2050	2510	2970	3300	3870	4530	5410

*** 3150 - 6000 kVA require an individual quotation**

Approximate Weights and Dimensions

Contractual obligations apply only to the final drawings provided in response to an order.

If the value of any electrical parameter (HV voltage, LV voltage, short-circuit voltage %, vector group, additional voltage, etc.) exceeds the values listed in the tables, the transformer's weight and dimensions will also change. In such cases, it is recommended to contact a Mefta Green Transfo representative.

RESIGLAS Cast-Resin Transformers

RESIGLAS Cast-Resin Transformers with HV Coils in "Roving" (Wet) Technology

The high-voltage windings in these transformers are manufactured using a layered method in roving technology. They consist of alternating layers of copper or aluminum conductors and glass fiber roving saturated with epoxy resin. The roving accounts for 60–70% of the total composition by mass.

The roving bands are applied alternately in longitudinal and diagonal directions, forming a reinforcing mesh that provides exceptionally high mechanical strength to the winding. Thanks to this structure, the coils are resistant to cracking caused by temperature changes from variable transformer loads.

For this reason, these transformers are particularly suitable for applications with significant load fluctuations and overloads, such as rectifier systems, tram and metro traction power supply, and fire-resistant mining substations.

RESIGLAS Transformers for Rectifier Systems

RESIGLAS transformers, available with two or three windings, are designed to supply 6- and 12-pulse rectifiers.

Each transformer design takes into account the level of harmonic currents flowing through the windings and the resulting increased heat generation.

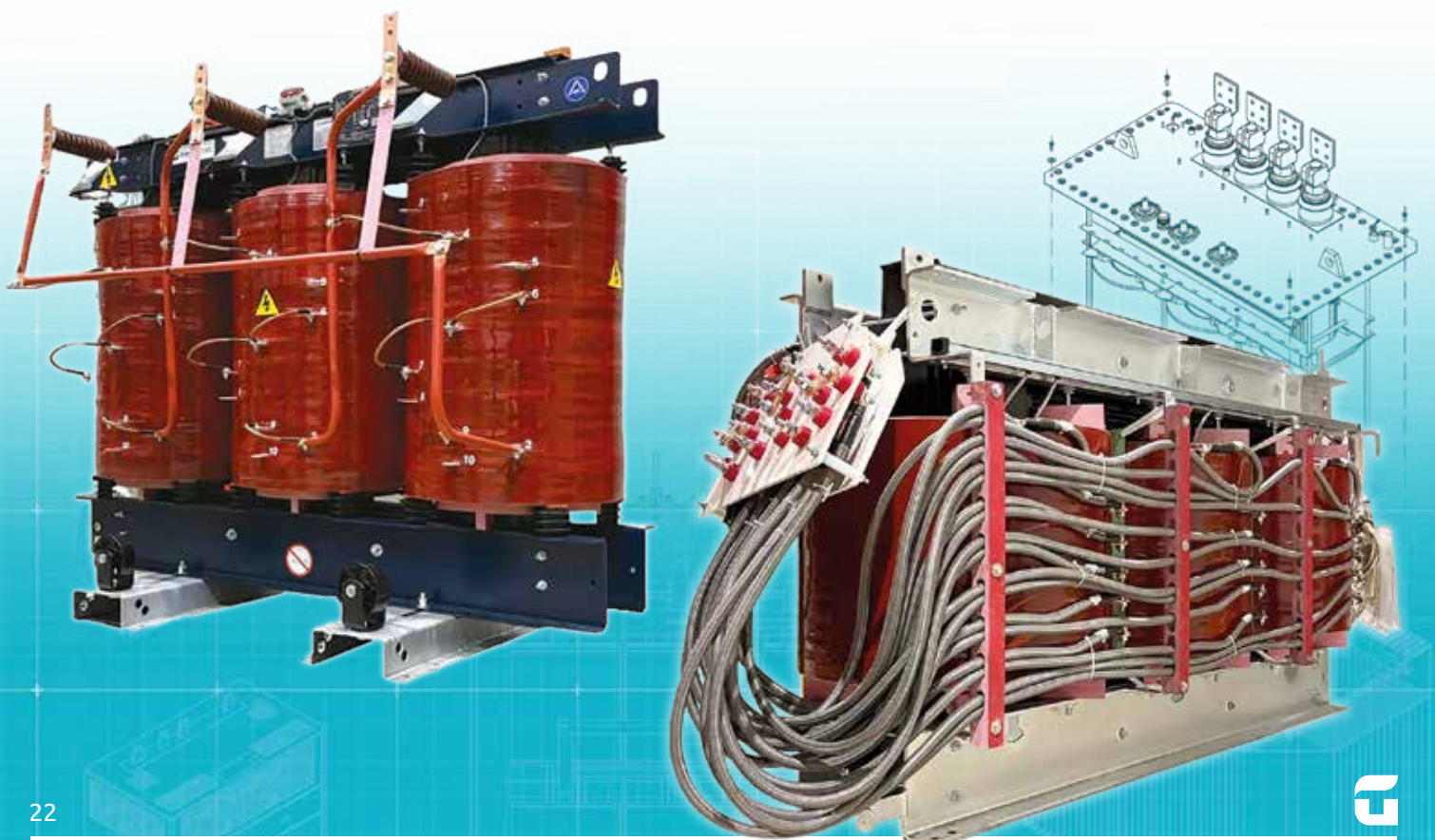
As a result, these transformers are specifically adapted for operation under demanding conditions.

RESIGLAS Transformers for Mining Substations

RESIGLAS transformers designed for mining substations are adapted for installation in flameproof enclosures and for operation in underground mine workings.

They feature a very low height and limited winding temperature rise, ensuring that permissible temperature limits are not exceeded when enclosed.

These transformers are designed to temperature class H, which means the maximum operating temperature of the windings is up to 180°C.



Transformers for Photovoltaic (PV) Installations, Electric Vehicle (EV) Charging Stations, and Battery Energy Storage Systems (BESS)

Over the past few years, transformers designed for photovoltaic (PV) farms, electric vehicle (EV) charging stations, and battery energy storage systems (BESS) have become increasingly popular.

For these applications, we have developed dedicated product series, specifically engineered to operate reliably under unique environmental and technical conditions.

Our specialized transformers are designed for long-term, dependable performance with minimal maintenance costs.

	PV	EV	BESS
Power (kVA)	630 - 7000*	250 - 2500	250 - 5000
HV Voltage (kV)	6 - 35	6 - 35	6 - 35
LV Voltage (V)	400, 420, 690, 800 For power ratings > 3150 kVA: 800	400, 420	400, 440, 480, 550, 600, 690, 800
Vector Group	Dyn5, Dyn11, Dynyn5	Dyn5, Dyn11	Dyn5, Dyn11, Dyn5yn5, Dyn11yn11, Dd0, Dd0d0, Yd5, Yd5d5
Total Harmonic Distortion (THDi)	up to 5%	up to 5%, up to 10%**	up to 5%
Voltage Harmonic Level (THDu)	up to 40%	up to 20%	up to 40%

* SPHERA DT transformers up to 7000 kVA, cast-resin transformers up to 6000 kVA.

** If THDi reaches 10%, the transformer's power should be at least 10% higher than the charger's rated power. THDi values for electric vehicles depend on the car brand and charger type.



After-Sales Service for Distribution Transformers

Scope of services performed by the manufacturer's service team at the customer's premises/substation:

- Measurement of insulation resistance and winding resistance
- Inspection and cleaning of oil-filled and cast-resin transformers
- Sampling of oil for testing in an external laboratory
- Partial discharge detection using an ultrasonic camera (mainly for dry-type transformers)
- Replacement of transformer components, including bushings and seals
- Elimination of leaks at weld joints using cold welding technology
- Noise detection in substations using an ultrasonic camera
- Other services related to comprehensive transformer maintenance



Transformer's modernization & retrofitting:

Cast-resin transformers

- Fans, PTC/PT100 sensors, temperature relays

Oil-filled transformers

- DMCR / e-DMCR – When a pipe for a pressure relief valve or an oil level indicator is present, we use a dedicated installation method that does not require removing the transformer from the substation.
- Transformer modernization, including replacement of medium-voltage porcelain bushings with connectors. For ratings up to 400 kVA, replacement can be performed at the customer's site; for higher ratings, modernization is carried out at our Mikołów facility.



We provide services throughout Europe for distribution transformers manufactured by Schneider Electric, AEG, ALSTOM, and AREVA, produced by the Transformer Factory in Mikołów (currently Mefta Green Transfo Energy Poland).

Examples of our projects

No.	Company	Location
1.	„SOKOŁÓW” SPÓŁKA AKCYJNA	JAROSŁAW
2.	32 BAZY LOTNICTWA TAKTYCZNEGO	BUCZEK
3.	3M WROCŁAW	WROCŁAW
4.	AFLOFARM	PABIANICE
5.	AIRPORT CITY GDAŃSK	GDAŃSK
6.	AKADEMIA GÓRNICZO HUTNICZA	KRAKÓW
7.	ARCELMITTAL POLAND S.A.	KRAKÓW
8.	ARKADIA	WARSZAWA
9.	ATMAN DATA CENTER WARSAW-3	WARSZAWA
10.	AVON	WARSZAWA
11.	BAZA WOJSKOWA W WARSZAWIE	WARSZAWA - WESOŁA
12.	BRIDGESTONE POZNAŃ SP. Z O.O.	POZNAŃ
13.	BUSINESS GARDEN POZNAŃ 2	POZNAŃ
14.	CATERPILLAR POLAND SP. Z O.O.	JANÓW LUBELSKI
15.	CEMENTOWNIA WARTA S.A.	DZIAŁOSZYN
16.	CENTRUM OKOLOGII W WARSZAWIE	WARSZAWA
17.	CERAMIKA TUBĄDZIN	WRÓBLEW
18.	CORAB S.A. ZAKŁAD PRODUKCYJNY	BARTOSZYCE
19.	DAF	KRAKÓW
20.	DAN CAKE	CHRZANÓW
21.	DELPHI	BŁONIE
22.	DĘBICA S.A.	DĘBICA
23.	DWORZEC PKP GDAŃSK GŁÓWNY	GDAŃSK
24.	EC ŻAGAN	ŻAGAN
25.	EDF RYBNIK	RYBNIK
26.	EDGECONNEX	WARSZAWA
27.	ELEKTROCIĘPOWNIA	GDYNIA
28.	ELEKTROWNIA JAWORZNO	JAWORZNO
29.	ELEKTROWNIA KOZIENICE	KOZIENICE
30.	ELEKTROWNIA OPOLE	BRZĘZIE K/OPOŁA
31.	ELEKTROWNIA OSTROŁĘKA	OSTROŁĘKA
32.	ELEKTROWNIA TURÓW	BOGATYNIA
33.	ELEKTROWNIA WODNA CZCHÓW	CZCHÓW
34.	ENEA WYTWARZANIE KOZIENICE	KOZIENICE
35.	ENERGYLANDIA	ZATOR
36.	EUROGLAS POLSKA SP. Z O.O.	UJAZD
37.	FABRYKA BARRY CALLEBAUT	ŁÓDŹ
38.	FABRYKA OKIEN VELUX	NAMYSŁÓW
39.	FABRYKA WENTYLATORÓW „FAWENT” S.A.	CHEŁM ŚLĄSKI
40.	FARMA FOTOWOLTAICZNA W JASTROWIE	JASTROWIE
41.	FUCHS OIL CORPORATION	GLIWICE
42.	GEBERIT	OZORKÓW
43.	GOODRICH AEROSPACE POLAND (GAP)	JASIONKA
44.	GÓRAŹDŹE CEMENT S.A.	GÓRAŹDŹE
45.	GRUPA AZOTY ZAKŁADY	POLICE
46.	HALA PRÓB PENDOLINO	CHORZÓW
47.	HOTEL PURO	WARSZAWA
48.	HOTEL SHERATON	WARSZAWA
49.	HUTA CMC	ZAWIERCIE
50.	HUTA CYNKU	MIASTECZKO ŚLĄSKIE
51.	HUTCHINSON	ZAWADA
52.	IKEA INDUSTRY POLAND SP. Z.O.O.	LUBAWA
53.	IKEA WROCŁAW	BIELANY WROCŁAWSKIE
54.	ING BANK ŚLĄSKI	KATOWICE
55.	JASTRZĘBSKA SPÓŁKA WĘGLOWA S.A.	SUSZEC
56.	KGHM POLSKA MIEDŹ S.A.	LUBIN
57.	KOLEJ GONDOŁOWA SOLINA	SOLINA
58.	KOMENDA WOJEWÓDZKA POLICJI KATOWICE	KATOWICE

59.	KOMPLEKS WOJSKOWY ORZYSZ	ORZYSZ
60.	KOMPLEKS WOJSKOWY REDZIKOWO	REDZIKOWO
61.	KRONOSPAN	STRZELCE OPOLSKIE
62.	KWK BOGDANKA	PUCHACZÓW
63.	LABORATORIUM HWIL HOCHTIEF	ZIELONKA
64.	LAFARGE CEMENT S.A.	PIECHOCIN
65.	LG ENERGY SOLUTIONS	BISKUPICE PODGÓRNE
66.	LIBERO	KATOWICE
67.	MCDONALD'S	GDAŃSK
68.	MENNICA TOWER	WARSZAWA
69.	METRO WARSZAWSKIE	WARSZAWA
70.	MICHELIN POLSKA	OLSZTYN
71.	MLEKOVITA	LUBAWA
72.	MLEKPOL W MRĄGOWIE DLA	MRĄGOWO
73.	MPK LUBLIN-TROLEJBUSY LUBLIN	LUBLIN
74.	MUBEA AUTOMOTIVE POLAND SP. Z O.O.	UJAZD
75.	MUZEUM JÓZEFA PIŁSUDSKIEGO	SULEJÓWEK
76.	NESTLE POLSKA S.A.	KALISZ
77.	NORDGLASS SP. Z O.O.	SKUPSK
78.	NOWA SIEDZIBA PSE	RADOM
79.	NOWY SZPITAL UNIWERSYTECKI	KRAKÓW
80.	NOWY SZPITAL W KOSTRZYNI NAD ODRĄ	KOSTRZYN NAD ODRĄ
81.	NSK BEARINGS ISKRA	KIELCE
82.	OCZYSZCZALNIA „WARTA” S.A.	CZĘSTOCHOWA
83.	ORANGE	WROCŁAW
84.	ORLEN OLEFINS EXPANSION PROJECT	PŁOCK
85.	ORLEN SA	PŁOCK
86.	PANATTONI	NADARZYN
87.	PANATTONI PARK KRAKÓW	KRAKÓW
88.	PAŃSTWOWE MUZEUM AUSCHWITZ-BIRKENAU	OŚWIĘCIM
89.	PARK OF POLAND SUNTAGO	WRĘCZA
90.	PARK WODNY W TYCHACH	TYCHY
91.	PERN BAZA PALIW NR 10 KAWICE	KAWICE
92.	PIT-RADWAR S.A.	KOBYŁKA
93.	PORT LOTNICZY GDAŃSK IM. LECHA WAŁĘSY	GDAŃSK
94.	PORT WOJENNY GDYNIA	GDYNIA
95.	ROCKWELL	KATOWICE
96.	ROSSMANN	ŁÓDŹ
97.	SEJM	WARSZAWA
98.	SILESIA CITY CENTER	KATOWICE
99.	STACJI UZDATNIANIA WODY WIŚNIOWA	POZNAŃ
100.	STORA ENSO POLAND S.A.	TYCHY
101.	SZPITAL KLINICZNY MSWIA	WARSZAWA
102.	SZPITAL PROKOCIM	KRAKÓW
103.	TAKENAKA	SMOLICE
104.	TAURON DYSTRYBUCJA S.A.	KRAKÓW
105.	TRAMWAJE PT "BEMA"	WARSZAWA
106.	TUNEL NA S-19	BABICA - RZESZÓW POŁUDNIE
107.	TYMBARK	OLSZTYNEK
108.	TYSKIE BROWARY KSIĄŻĘCE - KOMPANIA	TYCHY
109.	TZF POLFA S.A. (POLFA TARCHOMIN)	WARSZAWA
110.	UNILEVER POLSKA SA	BANINO
111.	VALEO LIGHTING SYSTEM	CHRZANÓW
112.	WHIRPOOL POLSKA SP. Z O.O.	WROCŁAW
113.	WOJSKOWA BAZA LOTNICZA NATO	POWIDZ
114.	ZAJEZDNIA TRAMWAJOWA "ANNOPOL"	WARSZAWA
115.	ZGH BOLESŁAW S.A.	BUKOWNO

Examples of our projects

No.	Company	Location	Country
1.	DISNEYLAND	PARYŻ	FRANCE
2.	SNCF	CRÉTEIL	FRANCE
3.	CASTROL	GANDAWA	BELGIUM
4.	HONDA AALST	AALST	BELGIUM
5.	ARCELOMITTAL MAGASIN GENERAL - DB1	FOS SUR MER	FRANCE
6.	USINE ROCKWOOL	COURMELLES	FRANCE
7.	JYSK ENERGI TEKNIK A/S	HOLSTEBRO	DENMARK
8.	DHOLLANDIA	PREDMIER	SLOVAKIA
9.	PORT DE MARSEILLE	MARSYLIA	FRANCE
10.	POSTE HTB DE BOIS PRINCE	YMONVILLE	FRANCE
11.	CONFORAMA	SOYAUX	FRANCE
12.	SNCF-TECHNICENTRE 221100115	SOTTEVILLE LES ROUEN	FRANCE
13.	POSTE HTB BOIS PAILLET	LES VILLAGES VOVEENS	FRANCE
14.	COPLAND SA	SAMADET	DENMARK
15.	POSTE SOURCE DE BEAUNE	BEAUNE LA ROLANDE	FRANCE
16.	RESIDENCE UNIVERSITAIRE LAENNEC	LYON	FRANCE
17.	AEROPORT CARCASSONNE/CH. SPIE	CARCASSONNE	FRANCE
18.	CLINIQUE MONTREAL	CARCASSONNE	FRANCE
19.	ADEKMA LEVAGE MANUTENTION	CARQUEFOU	FRANCE
20.	ALLIANZ	PARYŻ	FRANCE
21.	PORT GALLICE	JUAN LES PINS	FRANCE
22.	CAMPING HUTTOPIA	ARCACHON	FRANCE
23.	HOTEL HILTON NAOS	DIJON	FRANCE
24.	BNP PARIBAS	MERIGNAC	FRANCE
25.	UNIVERSITE CLAUDE BERNARD LYON	LYON	FRANCE
26.	CAMPUS AQUEDUC	GENTILLY	FRANCE
27.	COFRA TRAVAUX POSTE	AIGUILLON	FRANCE
28.	PORT DE MARINA	VILLENEUVE LOUBET	FRANCE
29.	UNIVERSITE DE BOURGOGNE	DIJON	FRANCE
30.	CAMPUS AQUEDUC	GENTILLY	FRANCE
31.	CENTRE HOSPITALIER SAINT OMER	HELFAUT	FRANCE
32.	PORT DE MARINA	VILLENEUVE LOUBET	FRANCE
33.	HOTEL SCHUMAN	AIX EN PROVENCE	FRANCE
34.	ACADEMY CMA CGM	MARSEILLE	FRANCE
35.	CLINIQUE BORDEAUX NORD	BORDEAUX	FRANCE
36.	HOTEL LES RIVAGES ZOO DE BEAUVAL	SAINT AIGNAN SUR CHER	FRANCE
37.	PORT DE MARINA	VILLENEUVE LOUBET	FRANCE
38.	CLINIQUE LA SALETTE	MARSYLIA-Z.I. LA CAPELETTE	FRANCE
39.	PORT DE MARINA	VILLENEUVE LOUBET	FRANCE
40.	AÉROPORT INTERNATIONAL DE GENÈVE	GENEWA	SWIZERLAND
41.	J&M LOGISTICS	BIERNE	FRANCE
42.	DHL GLOBAL FORWARDING FRANCE	BIERNE	FRANCE
43.	POSTE SOURCE DE FURIANI	FURIANI	FRANCE
44.	CLINIQUE STER	SAINT CLEMENT DE RIVIERE	FRANCE
45.	BAHNHOF HOERDE	DORTMUND	GERMANY
46.	GLOBAL SWITCH	FRANKFURT NAD MENEM	GERMANY
47.	COLLEGE ANATOLE FRANCE	LIMOGES	FRANCE
48.	AIRBUS	MONTOIR DE BRETAGNE	FRANCE

49.	COLLEGE GUY MARESCAL	AMIENS	FRANCE
50.	COLLEGE EDOUARD LUCAS	AMIENS	FRANCE
51.	HOPITAL DE HAUTIEPIERRE CHU	STRASBOURG	FRANCE
52.	AVENEL	DARNETAL	FRANCE
53.	POSTE DE RINGO	BELLAC	FRANCE
54.	HOTEL MUTIGNY	MUTIGNY	FRANCE
55.	HOTEL LES ROCHES	LE LAVANDOU	FRANCE
56.	E.LECLERC	SEDAN	FRANCE
57.	AEROPORT CHATEAUROUX	DEOLS	FRANCE
58.	HOPITAL PAUL BROUSSE - POUR AMICA	VILLEJUIF	FRANCE
59.	CREDIT AGRICOLE	NIMES	FRANCE
60.	LECLERC	SAINT PRIEST EN JAREZ	FRANCE
61.	HOPITAL SAINT PHILIBERT	LOMME	FRANCE
62.	DHL GLOBAL FORWARDING FRANCE	CRAYWICK BP99	FRANCE
63.	AEROPORT INTERNATIONAL	KOTONU	BENIN
64.	HOTEL RIVIERA SUITES/CH. MIE	NICEA	FRANCE
65.	POSTE BARBUSSE CHANTIER S.F.I.E.E.	PARAY-VIEILLE-POSTE	FRANCE
66.	PARC EXPO CHANTIER INEO	PEROLS	FRANCE
67.	CLINIQUE THIERS	BORDEAUX	FRANCE
68.	HOTEL DES CARMES,ZD: COURS ST LOUIS	BORDEAUX	FRANCE
69.	AEROPORT DE DEAUVILLE NORMANDI	SAINT GATIEN DES BOIS	FRANCE
70.	KNAUF CHANTIER LA MAINTENANCE	DAINVILLE	FRANCE
71.	INTERMARCHÉ CHANTIER MASSELIN	EQUEMAUVILLE	FRANCE
72.	COLLEGE WILLIAM CLASSEN	AILLY SUR NOYE	FRANCE
73.	COLLEGE EUGENE LEFEBVRE	KORBEA	FRANCE
74.	CINEMA PATHE DIJON	DIJON	FRANCE
75.	INTERMARCHÉ (CHANTIER TSV)	SEYSSINS	FRANCE
76.	HOPITAL CHU NORD	SAINT PRIEST EN JAREZ	FRANCE
77.	CINEMA UGC ISSY COEUR DE VILLE	ISSY LES MOULINEAUX	FRANCE
78.	CAMPING HUTTOPIA / CH. PIERAUT	ROYAT	FRANCE





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