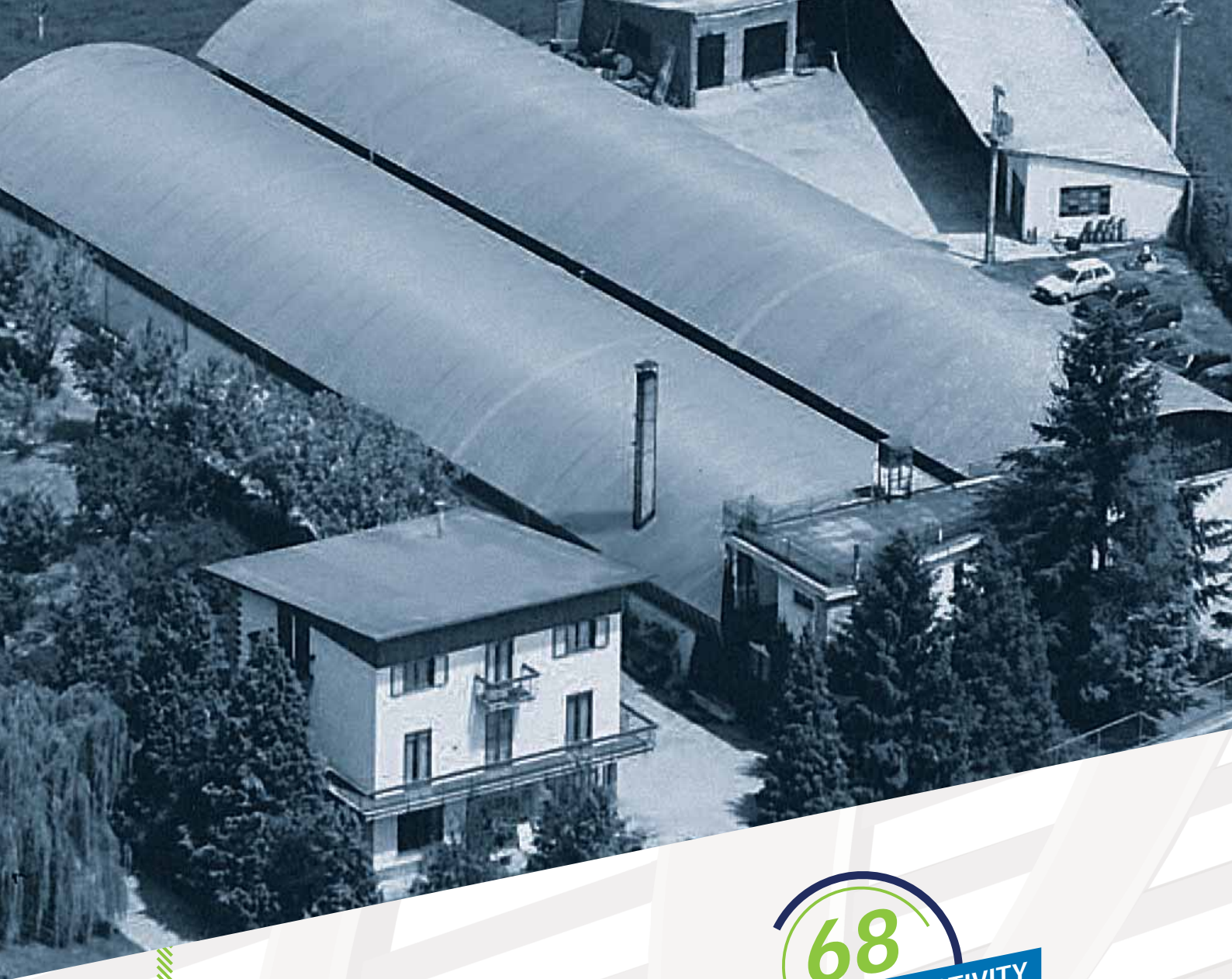


ELETTROMECCANICA PIOSSASCO



OIL IMMERSED
AND **CAST RESIN**
DISTRIBUTION
TRANSFORMERS

ENGLISH



ELETTROMECCANICA PIOSSASCO was created from the transformation of Elettromeccanica Luparia founded at the beginning of the 1950's by Mr. Giacinto and his son, Eng. Alessandro.

The original production consisted of various electrical machinery, power generator set included. In 1962, with the building of the Piovascasso (TO) factory, the company transformed itself in ELETTROMECCANICA PIOSSASCO, specializing exclusively in electrical transformers manufacturing.

In these years the growth has been steady thanks to foresight, tenacity and serious commitment that brought EP brand to be known and appreciated both in Italy and worldwide.

Today the company is managed by Eng. Alessandro's sons, Mr. Giacinto, Lorenzo and Andrea and it is projected to the consolidation of the brand, through the development of new synergies following the needs of an increasingly demanding and competent market.



CAST RESIN DISTRIBUTION TRANSFORMERS

Environmental protection through the control of the excessive use of natural resources is one of the main issue worldwide. We are active in finding a solution to this problem; we recycle all production's waste, and all the disposals are separately selected and controlled. In 2010 a photovoltaic system has been built near to our factory and its solar panels allow us to power all business activities exclusively with solar energy.



DRY TYPE TRANSFORMERS AND AUTOTRANSFORMERS



OIL IMMERSED DISTRIBUTION TRANSFORMERS

oil immersed transformers

SILICAGEL BREATHER WITH SALT
(FOR TRANSFORMERS WITH OIL KEEPER)

BROWN PORCELAIN BUSHING
FOR LV AND NEUTRAL

BROWN PORCELAIN BUSHING FOR HV

DIAL THERMOMETER
(ON REQUEST)

LIFTING LUGS

THERMOMETER POCKET

EARTHING TERMINAL

BI-DIRECTIONAL ROLLERS

BURSTING VALVE
TYPE 1: RELIEF VALVE FOR
TRANSFORMERS WITH
OIL KEEPERS
TYPE 2: OVER PRESSURE VALVE
FOR HERMETICAL
TRANSFORMERS

OIL KEEPER (FROM
1000 KVA UP TO 3150 KVA)

OIL LEVEL INDICATOR
(FOR TRANSFORMERS
WITH OIL KEEPER)

BUCHHOLZ RELAY FOR
TRANSFORMERS WITH
OIL KEEPER
(ON REQUEST)

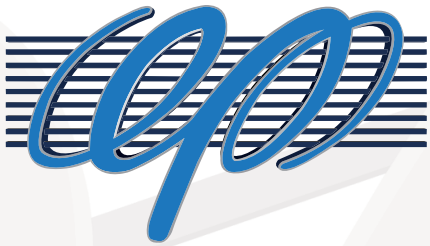
TAP CHARGER
NO LOAD HANDLING

DATA PLATE

DRAIN VALVE



Oil immersed distribution transformers
from kVA50 to kVA6000 with operation
up to kV 33 in insulation class kV 36.



All our transformers are produced entirely in our workshop with premium quality materials
MADE IN ITALY;
we use the latest generation equipment that guarantee the maximum effectivity and efficiency to our products.



Insulation Oil

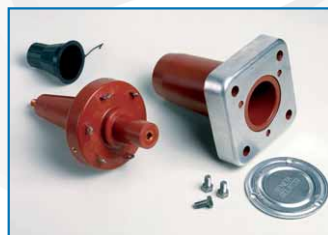
The first filling oil mostly used it's a petrochemical insulating mineral type, non-pollutant, free of PBC and PCT, responding to IEC 60296 regulation, provided with the relative certification attesting the analysis' parameters of the oil introduced in the transformer.

Before filling the transformer with a vacuum method, the oil is properly treated to achieve a perfect dehydration.

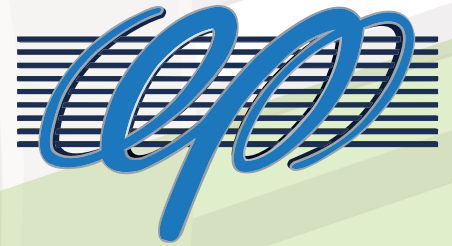
On request we can provide vegetable oils, both silicone and MIDEL 7131 type, with different physical characteristics depending on the installation location and the type of application.



Applications and accessories



Services provided



We offer to our customers the best solutions in terms of efficiency, quality and energy savings.

Technical assistance

By technical specialists on site or online (video tutorial and photos).

Inspections

Transformers inspections and dielectric analysis services, presence of PCBs and PCTs and dissolved gases.

Visits at our workshops



CRM

Customer support pre and post-sale.



Final Tests

Final inspections at the presence of the customer, according to CEI EN60076 regulation, with routine tests and issue of test certificates.

Special Tests

On our customers request we perform on our transformers special and series tests at specialized centres (CESI MILANO).



Quality Control and Certifications

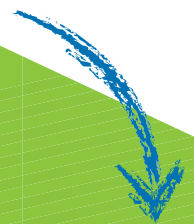
The whole production of Elettromeccanica Piosasco is based on the application of its own process, of a quality assurance system developed according to the **ISO 9001:2008** standards, accredited and verified by the **DNV certification agency (Det Norske Veritas)**.

The constant application of the EP Quality Manual with its own procedures, ensures a rigorous and detail control on all incoming materials and components, on the warehouse, during the production processes, on the final testing phase and on the packaging operations. Our goal is to guarantee to our customers the delivery of a product followed with constant attention from the outset and to every following phase of the manufacturing process.



Our customizations





We create
special projects
on customers'
request

24 kV ECODESIGN Series COPPER/COPPER HERMETICAL SEALED TYPE

Rated Power	No load losses	No load current	Losses at 75°	Shortcircuit impedance	LwA	Total weight	Oil weight	Length	Width	Height	Wheelbase
kVA	W	%	W	%	dB	kg	kg	mm	mm	mm	mm
100	145	1,2	1750	4	41	850	200	1000	600	1380	520
160	210	1,1	2350	4	44	1000	220	1070	680	1400	520
200	250	1	2750	4	46	1150	250	1100	720	1430	520
250	300	0,9	3250	4	47	1280	280	1150	750	1460	520
315	360	0,8	3900	4	49	1400	310	1220	780	1480	520
400	430	0,7	4600	4	50	1600	330	1240	830	1490	670
500	510	0,6	5500	4	51	1800	380	1330	870	1550	670
630	600	0,5	6500	6	52	2050	430	1420	910	1570	670
800	650	0,5	8400	6	53	2450	500	1530	1040	1670	670
1000	770	0,4	10500	6	55	2700	580	1600	1120	1720	820
1250	950	0,4	11000	6	56	3400	710	1650	1150	1820	820
1600	1200	0,3	14000	6	58	3700	780	1760	1200	1850	820
2000	1450	0,3	18000	6	60	4150	850	1870	1300	1930	820
2500	1750	0,2	22000	6	63	5850	1100	2200	1350	2330	1070
3150	2200	0,2	27500	6	64	6700	1250	2400	1400	2400	1070

24 kV ECODESIGN Series ALLUMINIUM/ALLUMINIUM HERMETICAL SEALED TYPE

Rated Power	No load losses	No load current	Losses at 75°	Shortcircuit impedance	LwA	Total weight	Oil weight	Length	Width	Height	Wheelbase
kVA	W	%	W	%	dB	kg	kg	mm	mm	mm	mm
100	145	1,2	1750	4	41	870	230	1050	550	1470	520
160	210	1,1	2350	4	44	1050	280	1100	600	1500	520
200	250	1	2750	4	46	1200	320	1140	630	1540	520
250	300	0,9	3250	4	47	1350	355	1180	680	1580	520
315	360	0,8	3900	4	49	1485	375	1240	740	1600	520
400	430	0,7	4600	4	50	1700	430	1280	760	1640	670
500	510	0,6	5500	4	51	1850	470	1390	780	1740	670
630	600	0,5	6500	6	52	2150	575	1450	840	1820	670
800	650	0,5	8400	6	53	2550	655	1570	950	1860	670
1000	770	0,4	10500	6	55	2800	700	1610	1010	1890	820
1250	950	0,4	11000	6	56	3400	810	1660	1020	2000	820
1600	1200	0,3	14000	6	58	3750	920	1790	1090	2090	820
2000	1450	0,3	18000	6	60	4350	1100	1880	1180	2220	820
2500	1750	0,2	22000	6	63	4900	1230	1970	1270	2370	1070



On the 1st of July 2015, the European Commission introduced the Ecodesign EN50588-1 regulation, which aims to achieve greater efficiency and consequently reduce CO₂ emissions. This legislation provided for the transformers the reduction of no-load losses and the reduction of density for load losses.



24 kV MEC Series - COPPER/COPPER

Rated Power	No load losses	No load current	Losses at 75°	Shortcircuit impedance	LpA	LwA	Total weight	Oil weight	Length	Width	Height	Wheelbase
kVA	W	%	W	%	dB	dB	kg	kg	mm	mm	mm	mm
50	190	2,9	1100	4	43	50	355	85	790	460	1170	360
100	320	2,5	1750	4	46	54	530	130	930	620	1220	520
160	460	2,3	2350	4	47	55	750	155	1010	640	1260	520
200	550	2,2	2800	4	48	56	870	195	1050	650	1280	520
250	650	2,1	3250	4	48	56	1040	240	1090	790	1310	520
315	780	2	3850	4	49	57	1180	260	1145	760	1380	520
400	930	1,9	4600	4	49	58	1420	280	1290	800	1440	670
500	1100	1,8	5500	4	50	59	1670	350	1370	880	1465	670
630	1300	1,7	6500	6	51	60	1930	450	1470	940	1540	670
800	1500	1,6	9000	6	52	62	2150	460	1580	1000	1600	670
1000	1700	1,5	10500	6	54	63	2800	570	1770	1100	1825	820
1250	2200	1,4	14000	6	56	65	3380	690	1870	1160	1950	820
1600	2600	1,3	16000	6	57	66	4200	860	1960	1260	2120	820
2000	3000	1,2	19000	6	60	69	5000	880	2520	1580	2180	1070
2500	3800	1,1	24500	6	63	71	5750	1100	2650	1700	2250	1070
3150	4400	1	30000	6	66	75	6600	1350	2750	1750	2320	1070

24 kV EP Series - COPPER/COPPER

Rated Power	No load losses	No load current	Losses at 75°	Shortcircuit impedance	LpA	LwA	Total weight	Oil weight	Length	Width	Height	Wheelbase
kVA	W	%	W	%	dB	dB	kg	kg	mm	mm	mm	mm
50	235	4,5	1250	4	45	56	350	80	790	460	1165	360
100	380	3,5	2000	4	48	57	500	120	920	600	1200	520
160	480	3	2900	4	53	60	700	150	1000	620	1240	520
200	600	2,8	3250	4	54	61	800	180	1035	630	1270	520
250	700	2,6	3950	4	56	63	950	220	1085	780	1300	520
315	850	2,4	5000	4,5	58	65	1100	240	1140	745	1360	520
400	950	2,3	6000	4,5	59	66	1300	270	1270	790	1430	670
500	1200	2,1	7000	4,5	60	67	1500	330	1355	860	1455	670
630	1400	1,9	9000	6	61	68	1700	400	1460	920	1525	670
800	1700	1,8	11000	6	61	69	2100	450	1570	990	1590	670
1000	2100	1,7	13000	6	62	71	2700	550	1760	1090	1815	820
1250	2300	1,6	15200	6	64	73	3250	660	1850	1140	1930	820
1600	2800	1,5	18500	6	66	75	3900	800	1950	1250	2100	820
2000	3200	1,4	23000	6	68	77	4600	900	2500	1560	2160	1070
2500	3900	1,3	26000	6	70	79	5400	1000	2620	1680	2220	1070
3150	4600	1,2	32000	6	72	81	6400	1200	2700	1720	2300	1070

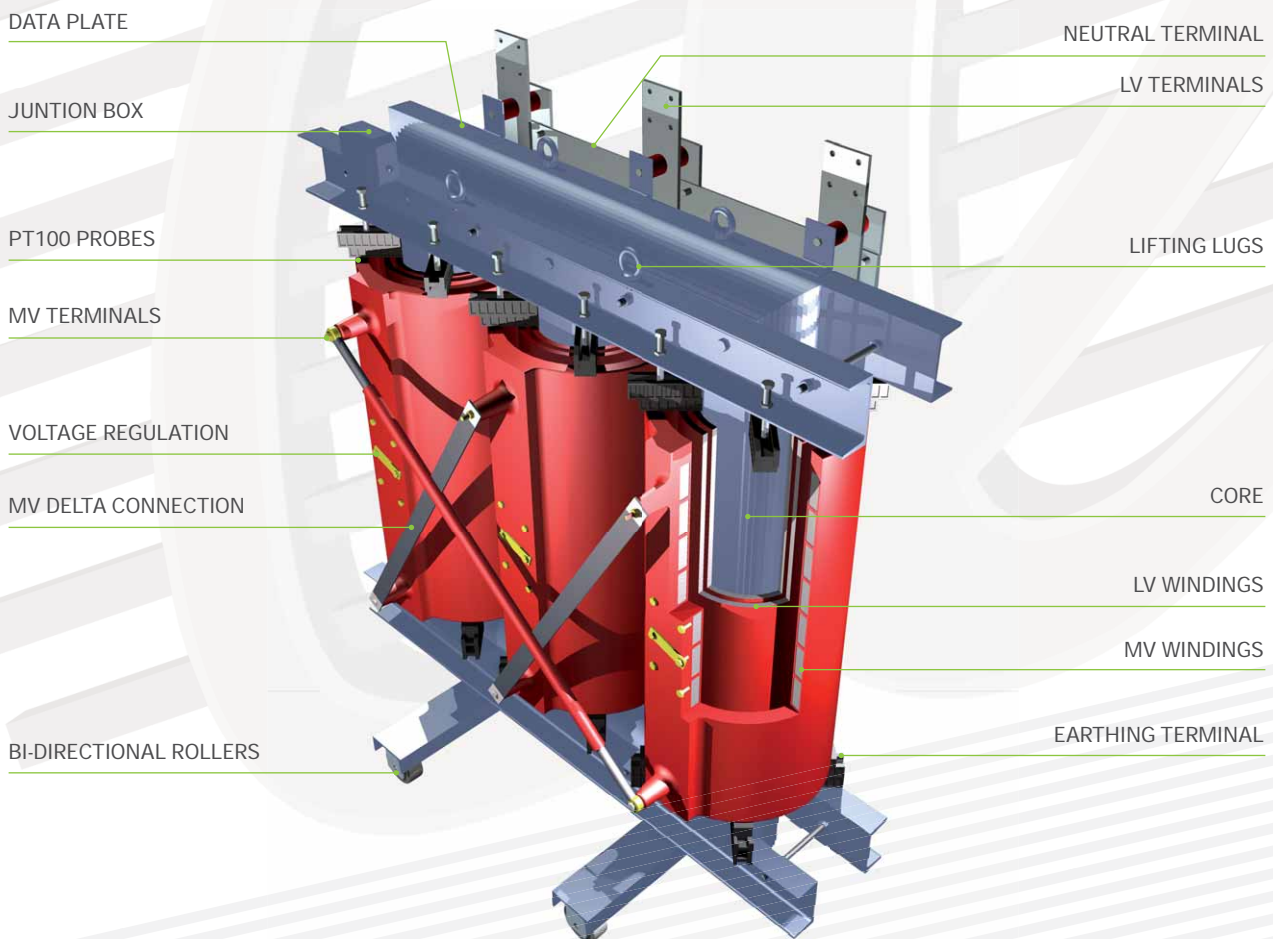
30 kV EP Series - COPPER/COPPER

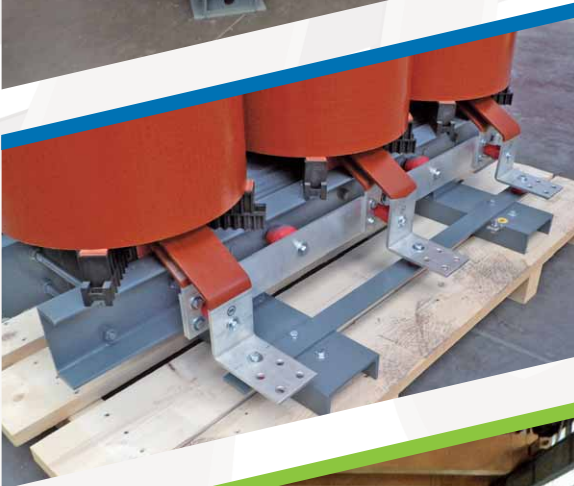
Rated Power	No load losses	No load current	Losses at 75°	Shortcircuit impedance	LpA	LwA	Total weight	Oil weight	Length	Width	Height	Wheelbase
kVA	W	%	W	%	dB	dB	kg	kg	mm	mm	mm	mm
50	270	5	1500	4	46	57	420	1000	920	660	1450	520
100	400	4	2350	4	50	59	630	145	950	680	1480	520
160	500	3,5	3100	4	55	62	900	220	1085	780	1490	520
200	660	3,2	3750	4,5	56	63	1110	250	1140	745	1520	520
250	780	2,9	4250	4,75	58	65	1250	270	1270	790	1650	670
315	900	2,7	5300	4,75	60	67	1300	300	1300	820	1700	670
400	1050	2,4	6600	5	61	68	1420	350	1355	860	1800	670
500	1250	2,2	7300	6	61	69	1700	380	1400	920	1820	670
630	1500	2	9300	6	62	70	1800	400	1560	960	1850	670
800	1800	1,9	11500	6	62	72	2200	450	1760	1090	1940	820
1000	2300	1,8	14000	6	64	73	3200	650	1950	1140	2000	820
1250	2450	1,7	15800	6	66	75	3600	780	2050	1260	2150	820
1600	2900	1,6	19000	6	68	76	4400	900	2200	1500	2350	1070
2000	3500	1,6	24000	6,5	70	79	5000	950	2350	1600	2450	1070
2500	4000	1,5	27000	6,5	74	81	5900	1350	2450	1700	2550	1070
3150	4700	1,4	33000	6,5	75	83	6500	1450	2600	1800	2650	1070

Cast Resin Transformers

In order to implement the range of our transformers, and to try to meet the requests of even the most demanding customers, the new series of cast resin transformers manufactured by **ELETTROMECCANICA PIOSSASCO** is able to offer a variety of technical and economic advantages in terms of:

- High efficiency and energy saving;
- Low noise level;
- Possibility of realization with reduced noise for installations inside buildings for civilian use;
- Possibility of installation in tropical climate countries with temperatures up to +55°C;
- Possibility of installation in countries with arctic climate with temperatures down to -60°C;
- Special execution on clients specifications;
- Sales and technical support during the project development.





We create special projects on customers' request



Protection
BOX



CAST RESIN Distribution Transformers – Reduced losses

17,5 kV ECODESIGN Series

Rated Power	No load losses	No load current	Losses at 120°	Shortcircuit impedance	LwA	Weight	Length	Width	Height	Wheelbase
kVA	W	%	W	%	dB	kg	mm	mm	mm	mm
100	280	2	2050	6	51	600	1150	600	1100	520
160	400	1,7	2900	6	54	700	1300	600	1200	520
200	453	1,5	3300	6	56	920	1300	600	1260	520
250	520	1,3	3800	6	57	1000	1350	600	1250	520
315	620	1,2	4537	6	58	1270	1400	750	1350	670
400	750	1,1	5500	6	60	1390	1450	800	1450	670
500	902	1,1	6413	6	61	1650	1500	800	1500	670
630	1100	1	7600	6	62	1800	1550	850	1590	670
800	1300	0,9	8000	6	64	2280	1580	850	1740	670
1000	1550	0,8	9000	6	65	2700	1630	1000	1850	820
1250	1800	0,7	11000	6	67	3150	1650	1000	1970	820
1600	2200	0,6	13000	6	68	3650	1750	1000	2220	820
2000	2600	0,5	16000	6	70	4410	1800	1300	2270	1070
2500	3100	0,4	19000	6	71	5400	2000	1300	2350	1070
3150	3800	0,4	22000	6	74	6550	2100	1300	2400	1070

24 kV ECODESIGN Series

Rated Power	No load losses	No load current	Losses at 120°	Shortcircuit impedance	LwA	Weight	Length	Width	Height	Wheelbase
kVA	W	%	W	%	dB	kg	mm	mm	mm	mm
100	280	2	2050	6	51	630	1200	600	1120	520
160	400	1,7	2900	6	54	710	1330	600	1220	520
200	453	1,5	3300	6	56	950	1330	600	1280	520
250	520	1,3	3800	6	57	1050	1380	600	1270	520
315	620	1,2	4537	6	58	1300	1430	750	1380	670
400	750	1,1	5500	6	60	1450	1470	800	1470	670
500	902	1,1	6413	6	61	1750	1560	800	1560	670
630	1100	1	7600	6	62	1850	1580	850	1630	670
800	1300	0,9	8000	6	64	2400	1620	850	1800	670
1000	1550	0,8	9000	6	65	2850	1680	1000	1900	820
1250	1800	0,7	11000	6	67	3250	1700	1000	2020	820
1600	2200	0,6	13000	6	68	3950	1800	1000	2230	820
2000	2600	0,5	16000	6	70	4550	1850	1300	2300	1070
2500	3100	0,4	19000	6	71	6000	2070	1300	2450	1070
3150	3800	0,4	22000	6	74	7050	2200	1300	2600	1070

Three Phase EP Cast Resin Transformers

30 kV EP Series - kVA 100:200 Yzn11 - kVA 250:3150 Dyn11

Rated Power	No load losses	No load current	Losses at 120°	Shortcircuit impedance	LwA	Weight	Length	Width	Height	Wheelbase
kVA	W	%	W	%	dB	kg	mm	mm	mm	mm
100	600	2,5	3150	6	62	800	1350	600	1400	520
160	780	2,2	3600	6	63	1000	1400	600	1450	520
200	1000	2	4000	6	64	1250	1450	600	1500	520
250	1150	1,9	4250	6	65	1400	1550	750	1550	670
315	1200	1,8	5000	6	65	1550	1600	750	1650	670
400	1300	1,6	6300	6	67	1650	1650	750	1730	670
500	1500	1,4	7350	6	68	1850	1650	850	1780	670
630	1800	1,2	8450	6	70	2250	1700	1000	1830	820
800	2400	1,1	10000	6	71	2600	1750	1000	1950	820
1000	2800	1	12500	6	74	2900	1800	1000	2050	820
1250	3200	0,9	14800	6	75	3650	1850	1300	2200	1070
1600	3400	0,7	16850	6	77	4150	2050	1300	2250	1070
2000	4300	0,6	21000	7	78	5300	2200	1300	2350	1070
2500	4500	0,5	25800	8	79	6000	2250	1300	2450	1070
3150	5200	0,5	27900	8	81	7000	2400	1300	2650	1070



12 kV EP Series

Rated Power	No load losses	No load current	Losses at 120°	Shortcircuit impedance	LwA	Weight	Length	Width	Height	Wheelbase
kVA	W	%	W	%	dB	kg	mm	mm	mm	mm
100	480	1,9	2200	6	53	500	980	600	1080	520
160	600	1,6	3300	6	60	630	1150	600	1150	520
200	730	1,5	3600	6	62	760	1200	600	1200	520
250	800	1,4	3900	6	63	860	1200	600	1200	520
315	850	1,2	4600	6	65	1000	1250	750	1300	670
400	1100	1,1	5500	6	67	1200	1250	750	1400	670
500	1150	1	6700	6	67	1350	1300	750	1450	670
630	1400	0,9	7800	6	68	1480	1400	850	1500	670
800	1800	0,8	9500	6	70	1850	1450	850	1650	670
1000	2150	0,7	11000	6	71	2300	1500	1000	1800	820
1250	2500	0,6	12500	6	73	2600	1550	1000	1910	820
1600	2750	0,6	15600	6	74	3160	1640	1000	2100	820
2000	3550	0,5	18000	6	76	3800	1700	1300	2150	1070
2500	3800	0,4	22000	6	78	4700	1900	1300	2200	1070
3150	4800	0,3	26000	8	80	5750	2100	1300	2210	1070

17,5 kV EP Series

Rated Power	No load losses	No load current	Losses at 120°	Shortcircuit impedance	LwA	Weight	Length	Width	Height	Wheelbase
kVA	W	%	W	%	dB	kg	mm	mm	mm	mm
100	500	1,9	2300	6	55	550	1000	600	1100	520
160	620	1,6	3250	6	61	650	1160	600	1150	520
200	750	1,5	3600	6	62	780	1220	600	1200	520
250	850	1,4	4000	6	64	920	1310	600	1200	520
315	920	1,2	4750	6	65	1050	1340	750	1300	670
400	1150	1,1	5600	6	66	1200	1300	750	1450	670
500	1200	1	6850	6	67	1400	1370	750	1480	670
630	1550	0,9	7900	6	69	1500	1400	850	1550	670
800	1850	0,8	9500	6	70	1900	1460	850	1700	670
1000	2200	0,7	11000	6	71	2300	1520	1000	1820	820
1250	2550	0,6	12800	6	73	2650	1550	1000	1920	820
1600	2850	0,6	15680	6	75	3200	1640	1000	2150	820
2000	3700	0,5	19800	6	77	3900	1700	1300	2200	1070
2500	3800	0,4	24400	6	78	4800	1920	1300	2300	1070
2500	3700	0,4	25200	8	78	4600	1950	1300	2270	1070
3150	4900	0,3	26880	8	81	5800	2120	1300	2350	1070

24 kV EP Series

Rated Power	No load losses	No load current	Losses at 120°	Shortcircuit impedance	LwA	Weight	Length	Width	Height	Wheelbase
kVA	W	%	W	%	dB	kg	mm	mm	mm	mm
100	530	2	2400	6	55	600	1100	600	1150	520
160	650	1,6	3250	6	62	680	1200	600	1200	520
200	780	1,5	3800	6	63	800	1250	600	1250	520
250	880	1,4	4000	6	64	950	1350	600	1250	520
315	1000	1,2	4750	6	66	1100	1400	750	1350	670
400	1200	1,1	5700	6	67	1300	1400	750	1480	670
500	1320	1	6600	6	68	1480	1460	750	1500	670
630	1650	0,9	7800	6	70	1650	1460	850	1580	670
800	2000	0,8	9600	6	71	2000	1500	850	1700	670
1000	2400	0,7	12100	6	73	2400	1550	1000	1850	820
1250	2750	0,6	13500	6	74	2750	1650	1000	1950	820
1600	3000	0,6	16000	6	75	3350	1700	1000	2200	820
2000	3900	0,5	20000	6	77	4000	1800	1300	2250	1070
2500	4400	0,4	25200	6	79	5000	2000	1300	2350	1070
2500	4200	0,4	25980	8	78	4800	2000	1300	2310	1070
3150	5000	0,3	27300	8	81	5800	2150	1300	2370	1070



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