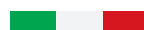


EL.PI. CAST-RESIN



DISTRIBUTION TRANSFORMERS

Cast Resin





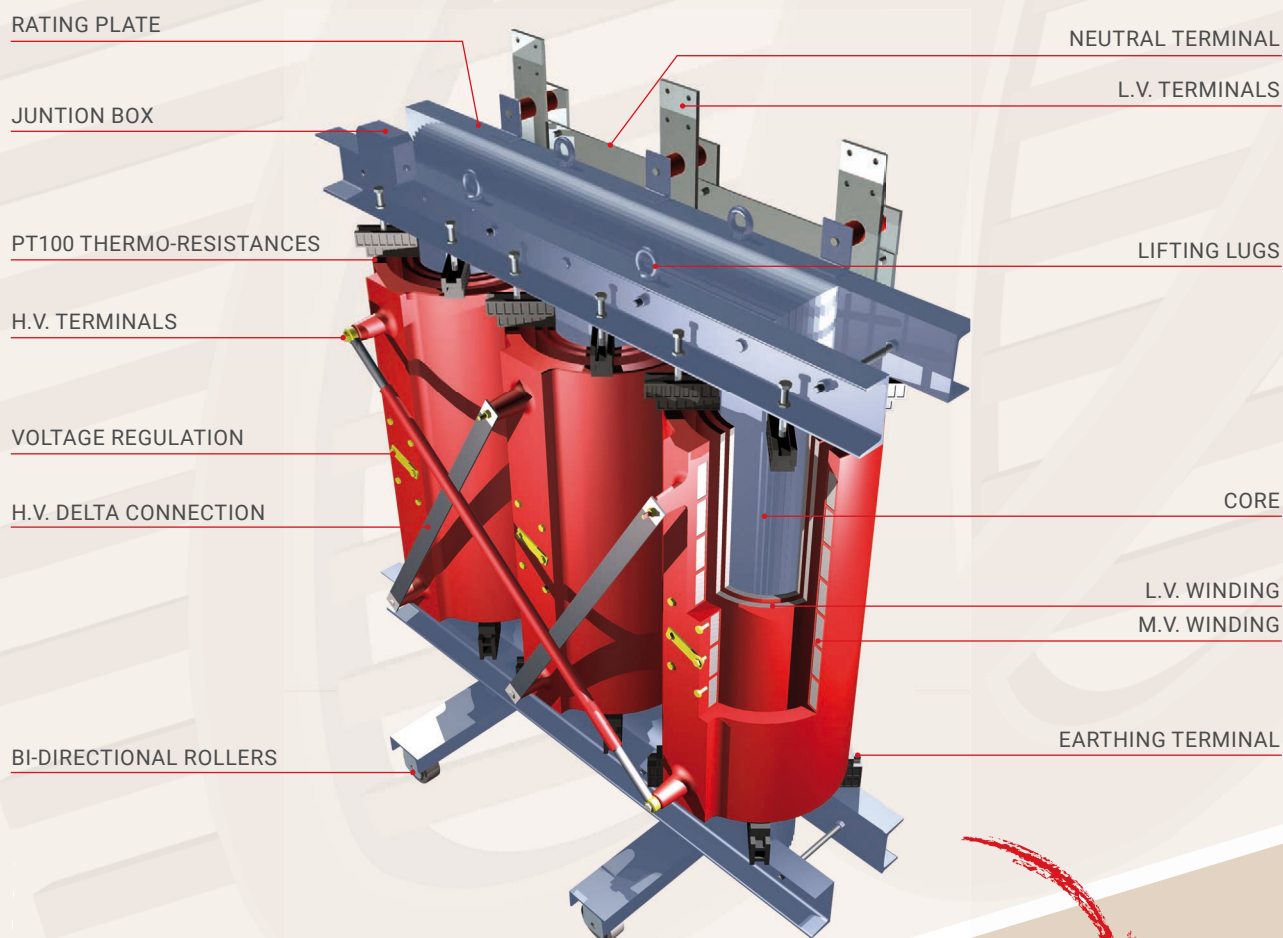
EL.PI.CAST-RESIN SRL began its production of **cast resin distribution transformers** in 2010 using the experience and expertise of **ELETTROMECCANICA PIOSSASCO SRL**, a company operating in the sector since 1962, of which it is a subsidiary.

To meet the high demand for cast resin transformers, both on the national and international market, **EL.PI.CAST-RESIN SRL** owners have decided to expand the production area by creating a second plant and to invest in the purchase of last-generation machinery to be able to create even more performing transformers.



Standard execution and equipment

- Primary Tension: up to kV 33
- Secondary Tension: up to kV 0,690
- Insulation Class: up to kV 36
- Connection (from kVA 100 to kVA 3150) delta/star + neutral (other on request)
- CEI Group: Dyn11 or Dyn5 or Yyn0 (other on request)
- Frequency: Hz50
- Core with oriented grain, insulated with carlite
- Aluminium primary winding, encapsulated type
- Aluminium secondary winding, immersed type
- H.V. tapping switch
- L.V. terminal plates
- Bidirectional rollers
- Lifting lugs
- Earthing terminal
- Nr. 3 thermo-resistances PT100 wired in box
- Nr. 1 T-154 monitoring device
- Rating plate
- IP 00 protection degree



Cast resin transformers
from kVA 50 up to kVA 3150
with operating voltages up to
kV 33, in kV 36 insulation class.



STATE-OF-THE ART WINDING MACHINES FOR THE REALIZATION OF H.V. / L.V. WINDINGS

2 WAREHOUSES

4000 SQM of PRODUCTION AREA

2000 SQM of STORAGE AREA

1 TEST ROOM

2 CAST RESIN EMBEDDING PLANTS

6 OVERHEAD CRANES

4 FORKLIFT TRUCKS



Production area



CAST RESIN EMBEDDING PLANT



Environmental and ambient classes

The environmental conditions to which dry transformers are subjected are classified according to humidity, condensation, pollution, and ambient temperature.

These factors are important not only during operation but also during storage prior to installation.



We are proud to announce that we are among the few transformers manufacturers in Italy to have obtained the environmental certification E3-C2-F1, following the test carried out in September 2020 at the KEMA laboratories (Cesi group).

E3 Class

The transformer can withstand heavy condensation or intense pollution, or a combination of both aforementioned factors.

C2 Class

Outdoor installation (inside protective box) but not with direct exposure to bad weather. The transformer is suitable for operation, transport, and storage at ambient temperatures down to -25°C.

F1 Class

Transformers subject to fire risk, reduced flammability with self-extinguishing characteristics.



Tests

All our transformers, before being placed on the market, are subjected to testing in accordance with the procedures provided by the **CEI EN60076-11** Standard, with the execution of the following routine tests:

- Measurement of the voltage ratio
- Measurement of polarity and vector group
- Measurement of no load losses and no load current
- Measurement of windings resistance
- Applied voltage test
- Induced voltage test
- Measurement of partial discharges
- Measurement of load losses and impedance value at ambient temperature

At the customer's request, it's also possible to carry out or repeat both acceptance and type tests (as well as special ones), in laboratories managed by recognized external bodies.

Services offered



Technical assistance

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



CRM

Customer support
pre and post-sale



Customized products

We can realized special products
on customers' request

Final Tests

On customers' request we can
perform final witnessed tests in our
factory or via conference call



Visits at our workshops



CAST RESIN Distribution Transformers - Reduced losses

17,5 kV ECODESIGN series - TIER 1

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	750	1300	600	1200	520
200	453	1,5	3300	6	56	950	1300	600	1260	520
250	520	1,3	3800	6	57	1100	1350	600	1250	520
315	620	1,2	4537	6	58	1300	1400	750	1350	670
400	750	1,1	5500	6	60	1550	1450	800	1450	670
500	902	1,1	6413	6	61	1700	1500	800	1500	670
630	1100	1	7600	6	62	1950	1550	850	1590	670
800	1300	0,9	8000	6	64	2450	1580	850	1740	670
1000	1550	0,8	9000	6	65	2900	1630	1000	1850	820
1250	1800	0,7	11000	6	67	3400	1650	1000	1970	820
1600	2200	0,6	13000	6	68	4200	1750	1000	2200	820
2000	2600	0,5	16000	6	70	4700	1800	1300	2270	1070
2500	3100	0,4	19000	6	71	6000	2000	1300	2350	1070
3150	3800	0,4	22000	6	74	7200	2100	1300	2500	1070

24 kV ECODESIGN series - TIER 1

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	650	1200	600	1120	520
160	400	1,7	2900	6	54	790	1330	600	1220	520
200	453	1,5	3300	6	56	1000	1330	600	1280	520
250	520	1,3	3800	6	57	1200	1380	600	1270	520
315	620	1,2	4537	6	58	1450	1430	750	1380	670
400	750	1,1	5500	6	60	1700	1470	800	1470	670
500	902	1,1	6413	6	61	1830	1560	800	1560	670
630	1100	1	7600	6	62	2100	1580	850	1630	670
800	1300	0,9	8000	6	64	2600	1620	850	1800	670
1000	1550	0,8	9000	6	65	3180	1680	1000	1900	820
1250	1800	0,7	11000	6	67	3540	1700	1000	2020	820
1600	2200	0,6	13000	6	68	4350	1800	1000	2230	820
2000	2600	0,5	16000	6	70	5000	1850	1300	2300	1070
2500	3100	0,4	19000	6	71	6250	2070	1300	2450	1070
3150	3800	0,4	22000	6	74	7600	2200	1300	2600	1070



From the 1st July 2021 has come into force the TIER 2 of the Ecodesign EN50588 Standard; this new tier impose a further reduction, compared to the TIER 1, both in no-load losses and in load losses, ensuring a greater energy efficiency and consequent reduction of the CO₂ emissions.

CAST RESIN Distribution Transformers - Very Reduced losses

17,5 kV ECODESIGN series - TIER 2

Rated Power	No load losses	No load current	Ak	Shortcircuit impedance	LwA	Weight	Length	Width	Height	Wheelbase
(kVA)	(W)	(%)	(W)	(%)	(dB)	(kg)	(mm)	(mm)	(mm)	(mm)
100	252	2	1800	6	49	660	1200	600	1150	520
160	360	1,7	2600	6	52	830	1380	600	1250	520
200	408	1,5	2956	6	54	1100	1400	600	1280	520
250	468	1,3	3400	6	55	1250	1430	600	1300	520
315	558	1,2	3877	6	56	1450	1500	750	1400	670
400	675	1,1	4500	6	58	1680	1530	800	1480	670
500	812	1,1	5630	6	59	1840	1600	800	1580	670
630	990	1	7100	6	60	2200	1650	850	1650	670
800	1170	0,9	8000	6	62	2550	1680	850	1750	670
1000	1395	0,8	9000	6	63	3080	1700	1000	1850	820
1250	1620	0,7	11000	6	63	3500	1750	1000	2000	820
1600	1980	0,6	13000	6	64	4350	1800	1000	2280	820
2000	2340	0,5	16000	6	66	4830	1850	1300	2300	1070
2500	2790	0,4	19000	6	67	6200	2100	1300	2400	1070
3150	3420	0,4	22000	6	70	7350	2200	1300	2550	1070

24 kV ECODESIGN series - TIER 2

Rated Power	No load losses	No load current	Ak	Shortcircuit impedance	LwA	Weight	Length	Width	Height	Wheelbase
(kVA)	(W)	(%)	(W)	(%)	(dB)	(kg)	(mm)	(mm)	(mm)	(mm)
100	252	2	1800	6	49	700	1300	600	1180	520
160	360	1,7	2600	6	52	880	1450	600	1300	520
200	408	1,5	2956	6	54	1150	1500	600	1350	520
250	468	1,3	3400	6	55	1330	1530	600	1380	520
315	558	1,2	3877	6	56	1500	1600	750	1450	670
400	675	1,1	4500	6	58	1850	1640	800	1530	670
500	812	1,1	5630	6	59	1920	1700	800	1630	670
630	990	1	7100	6	60	2300	1780	850	1700	670
800	1170	0,9	8000	6	62	2780	1820	850	1800	670
1000	1395	0,8	9000	6	63	3300	1880	1000	1900	820
1250	1620	0,7	11000	6	63	3680	1950	1000	2120	820
1600	1980	0,6	13000	6	64	4550	2000	1000	2300	820
2000	2340	0,5	16000	6	66	5200	2100	1300	2400	1070
2500	2790	0,4	19000	6	67	6530	2150	1300	2500	1070
3150	3420	0,4	22000	6	70	7800	2200	1300	2650	1070

CAST RESIN Transformers - EP Series

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

CAST RESIN Transformers - EP Series

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



INFRARED THERMOMETRIC SENSORS



NT935 CONTROL UNIT



VRT200 FORCED VENTILATION CONTROL UNIT



SELF-SUPPORTING PROTECTION BOX IP31



FORCED VENTILATION KIT



PT100 THERMO-RESISTANCES WIRED IN BOX



TIR409 INFRARED SENSOR



- Forced ventilation smart kit consisting of:
- Electronic temperature monitoring unit "NT935BH in digital version RS485 - ETH(ernet)"
 - "Control box" TRBH for each bar
 - nr. 6 tangential fans TRBH - TG series
 - nr. 2 PRE-WIRED ventilation bars



NEW EXCLUSIVE ACCESSORY



T154 WS



EL.PI. CAST-RESIN



Experience, Reliability and Quality

EL.PI. CAST-RESIN s.r.l.

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