



MARKET LEADER IN THE DEVELOPMENT OF LLC INTEGRATED RESONANT TRANSFORMERS

1ST ITALIAN MANUFACTURER OF PCB TRANSFORMERS WITH ISO9000 CERTIFIED QUALITY SYSTEM



SEPTEMBER 2021





UNI EN ISO 9001 CERTIFIED QUALITY SYSTEM

Our company is the first Italian manufacturer of PCB transformers with a ISO9000 certified quality system. On the market since 1981, we have been certified since 1992.

Our long experience in this sector and our participation as **CEI Member** in the works of the **Technical Committee 96** in charge of developing **EN61558** standard allows us to offer specific competence and visibility future evolutions.

Founded in 1909, **CEI - Comitato Elettrotecnico Italiano** – is the Italian institution, formally recognised by the Italian Government and by the European Union, that prepares and publishes technical standards in the electrical, electronic and telecommunication fields.



We use clean energy from renewable sources for a sustainable development.

The European Union promotes, develops and guarantees the production of electrical energy from renewable sources through the RECS (Renewable Energy Certificate System) program. The RECS is an international certification program which currently involves manufacturers, traders, organizations and certification societies which operate in the electricity sector in 18 European countries. With the RECS certificate, Lifegate SpA certifies and guarantees that the energy it provides comes from renewable sources, which do not deplete resources nor cause irreversible damages to the environment.

All our products are made according to RoHS, REACH, POP, SCIP AND CM Regulations. (*)
We make regular surveys and keep our customers informed twice a year about any substance or any change referred to their own products.

(*) referring to the Candidate List of Substances of Very High Concern (SVHC) in force at the date of revision of this document, from the information in our hands.



Assistance with Safety Agency Approvals

Where required, our products are designed to meet the most common IEC-EN-UL safety standards. For non-certified products, we support our Customers to achieve the approval of their final product providing the necessary safety data.

Itacoil 130-1 electrical insulation system

All our LLC standard resonant transformers are UR labelled according our isolation system. The custom transformers can be also marked upon request.



Following the agreement reached by the main European Certification bodies (ENEC agreement approved by the Cenelec Mark Committee) the mark ENEC has been created (ENEC stands for European Norms Electrical Certification). This mark can be applied to some product categories, as for example safety transformers. It is exclusively granted to those manufacturers who have a Certified Quality System according to the norm ISO9000. This mark is acknowledged by the bodies listed below. Beside representing a guaranteed quality standard of the products and compliance with the norms, this is also the best European passport for your equipment, since having the ENEC mark means practically having 26 marks.

IMQ Italy
OVE Austria
NEMKO Norway
TRI MEEI Hungary
AENOR Spain
SEP BBJ Poland
EVPU Slovakia

VDE Germany
INTERTEK SEMKO Sweden
DEKRA Netherlands
ITCL UK
TRLP Germany
SNCH Luxembourg
TSE Turkey

LCIE France
DEMKO Denmark
CERTIF Portugal
BSI UK
MIRTEC Greece
TüV Süd PS Germany

EUROFINS Switzerland
SGS FIMKO Finland
SGS CEBEC Belgium
EZU Czech Rep.
SIQ Slovenia
IMiF PREDOM Poland

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- **We design, produce and market efficient magnetic components.**
- **We are technological leader in the design and production of resonant transformers.**
- We are the first Italian company to produce ISO9000-certified PCB transformers.
- We participate, as a current IEC Member, in the Technical Committee regarding the development of the EN61558 Standard for transformers.
- We rely on a flexible and dynamic organisation.
- We produce both in Italy with highly automated lines and in low-cost areas.
- We inspect using refined statistical analysis techniques and artificial vision systems.
- The automations and software are realised internally optimising all the company's activities.
- We design magnetic components using our own unique-on-the-market proprietary software.
- **We offer the best energy efficiency, dimensional and economic results.**
- **We minimize the customer's development times and costs.**
- We supply a quick prototyping service.
- We can offer a highly skilled consultancy and electronic design service regarding SMPS, also resonant.
- We have redesigned the magnetic components, thus improving efficiency, dimensions, etc. of the most popular LLC resonant demo-boards.
- We collaborate with the main manufacturers of semiconductors* for the development of demo-boards and special projects.



*All brand names stated herein are the property of the respective businesses



- **Progettiamo, produciamo e commercializziamo componenti magnetici efficienti.**
- **Siamo leader tecnologici nella progettazione e produzione di trasformatori risonanti.**
- Siamo il primo produttore italiano di trasformatori da circuito stampato certificato ISO9000.
- Partecipiamo al comitato tecnico normatore della norma EN61558 per i trasformatori in qualità di membro effettivo CEI.
- Disponiamo di una struttura leggera e dinamica.
- Produciamo sia in Italia con linee altamente automatizzate che in area low-cost.
- Collaudiamo utilizzando raffinate tecniche di analisi statistica e sistemi di visione artificiale.
- Realizziamo internamente le automazioni ed i software ottimizzando ogni attività aziendale.
- Progettiamo i componenti magnetici con software proprietario unico sul mercato.
- **Offriamo i migliori risultati di efficienza energetica, dimensionale ed economica.**
- **Riduciamo al minimo i tempi ed i costi di sviluppo del cliente.**
- Forniamo un servizio di prototipazione rapida.
- Possiamo offrire un servizio di consulenza e di progettazione elettronica di grande competenza di SMPS, anche risonanti.
- Abbiamo ridisegnato i magnetici migliorando l'efficienza, dimensioni, ecc. delle più popolari demo-board risonanti LLC.
- Collaboriamo con i principali produttori di semiconduttori* allo sviluppo di demo-boards e progetti speciali.



*Tutti i marchi qui citati sono di proprietà dei rispettivi proprietari

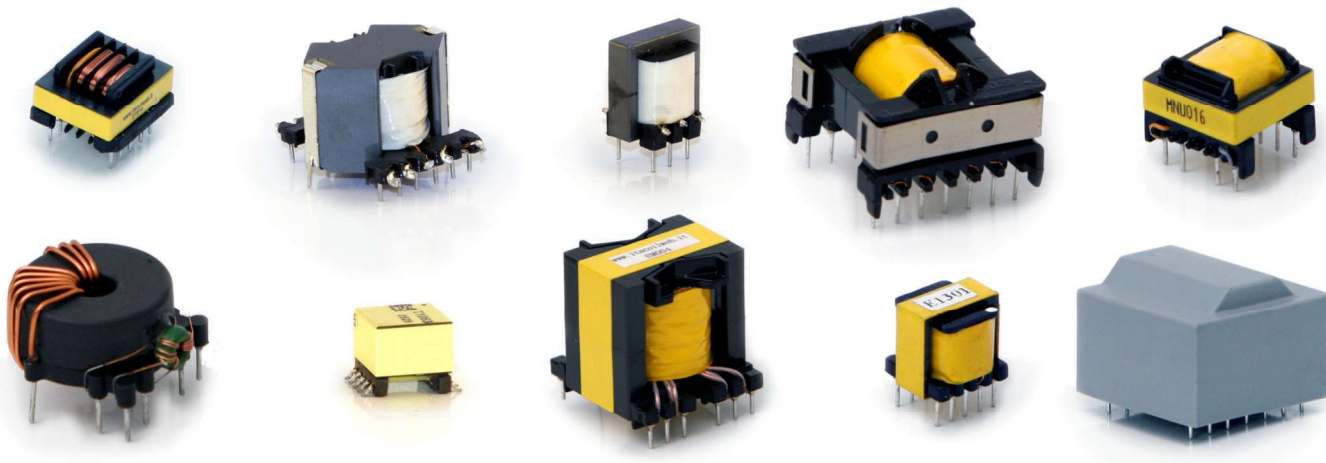


Since many transformer applications require custom solutions our company has developed extensive experience in tailoring its products and services to meet specific customer requirements.

We offer the complete range of Ferrite Transformers designed to your specifications, including Switch Mode, Flyback etc. with ferrite or others magnetic materials core.

We can supply them in each size available on the market, whether linear or toroidal and for THD or SMD assembly.

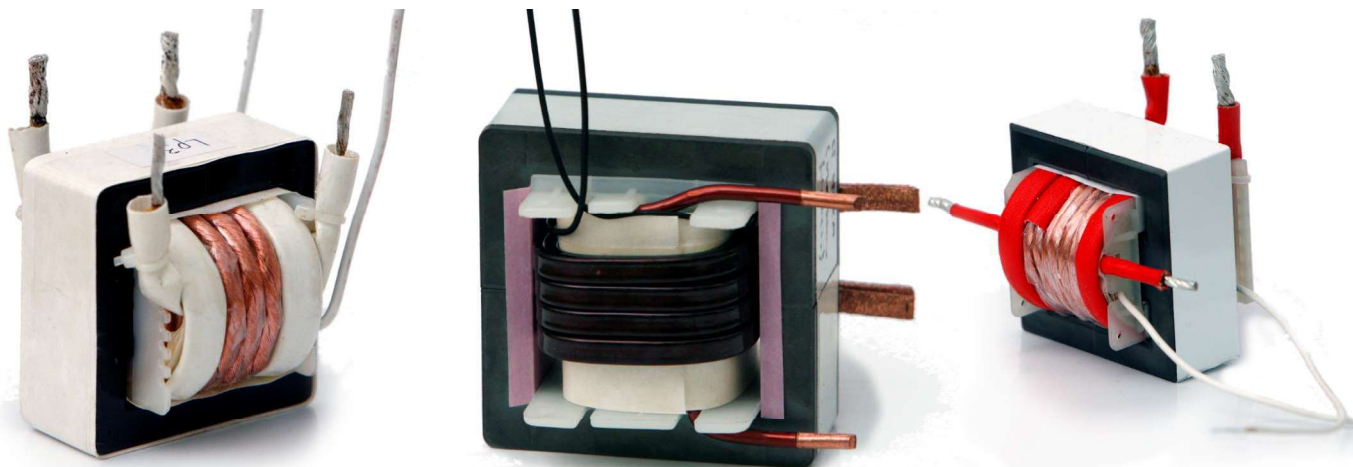
Windings can be made of litz wire, flat wire or wire with reinforced insulation (T.I.W.), if needed for safety and technical requirements.



High power ferrite transformers for SMPS

We specialise in the design and manufacture of transformers with ferrite or others magnetic materials core, produced in accordance with each specific application requirement and power up to many kVA.

Windings can be made of litz wire, flat wire or wire with reinforced insulation (T.I.W.), if needed for safety and technical requirements.





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FULL CATALOGUE