“a leading producer of Transformers, Reactors and Electromagnetic assemblies for a wide range of applications”
Trafomec Industries is a leading producer of Transformers, Reactors and Magnetic assemblies for a wide range of applications supported by an international organization that combines a true global presence with strong technology knowledge owed by qualified local manufacturing and service capabilities.

**Our strengths:**
- Quality
- Reliability
- Customer Care

The production portfolio of Trafomec Group is composed of four main product lines supported by a further division dedicated to the products design as well as the technical assistance to the Group customers worldwide. In Trafomec Industries hundreds of people work together proudly, to serve customers throughout the world in a constant process of renewal, creating added value by fulfilling our commitment to the customers, the employees, the communities and the societies in which we operate.
The PSS division provides transformers and reactors for power supply systems. It offers customized, engineered and high quality solutions to ensure electrical power supply in a wide range of critical industrial applications, from power supply protection and UPS to integrated power supply solutions for conventional and renewable power generation systems.

**Main products**
- Driver & Rotary UPS: impregnated or incorporated, air cooled medium voltage (V>1000V) transformers and reactors for drives and rotary UPS;
- Renewable energies: cast resin, air cooled medium voltage (V>1000V) transformers for distribution or photovoltaic and solar or wind applications;
- Stationery UPS & LV Solar – Transformers: impregnated, air cooled low voltage transformers for static UPS and photovoltaic inverters;
- Stationery UPS & LV Solar – Reactors: impregnated, air cooled low voltage reactors for static UPS and photovoltaic inverters.

**Main applications**
- Naval Aux
- Solar Thermodynamic
- EV Charge
- PV
- Wind Power
Power Supply System - PSS

Single-Phase Reactors

Description
The single-phase reactors can be used both in DC and AC applications. In DC to limit or to filter the ripple of the direct current when combined with parallel connected capacitors. In AC they can limit the short-circuit currents and the rate of current rise (di/dt) and they can protect semiconductor power devices and extend their operating life by limiting transient over-current.

Technical information
Power Rating up to 2 MVA; Max rated current 6000 A; Rated line voltage <6000 V.

Three Phase Reactors

Description
The function of this reactor is to protect capacitors in low voltage power factor correction system because, after the connection in series with capacitors, the self-resonance frequency is well below the line harmonics.

Technical information
Compensation Power Qc 6,3 – 100 kVAR; Blocking factor p% 5,67% / 7% / 14%; Rated line voltage 400 V.

Mono-three Phase Reactors (Commuting)

Description
The function of these reactors is to reduce harmonics in the line current, to limit the short circuit currents, to attenuate the line voltage peaks and sags and limiting the transition currents during switching instants.

Technical information
Compensation Power Qc 2 MVA; Blocking factor p% 6000 A; Voltage Drop dU% 2 / 4 / 6 / 8 / 12%; Rated line voltage <1000 V.
**Medium Frequency Reactors**

*Description*
These reactors are the future development for UPS called “transformer-less”. On the next UPS generation there won’t be transformers but the use of these reactors for filtering and smoothing will be more and more important.

*Technical information*
Rated current 10-500 A; Inductance up to 1 mH; Voltage Drop dU% 2 / 4 / 6 / 8 / 12%; Rated line voltage <1000 V.

**Rectifiers Transformers**

*Description*
Purpose of the rectifier transformers is to operate with AC/DC power converters connected to them, to adapt the power line voltage required by the load and to provide galvanic separation between load and power line.

*Technical information*
Three Phase, Rated Power up to 5 MVA, Primary/Secondary voltage 200 V / 500 V.

**Interphase Transformers with shall care**

*Description*
These transformers are used to balance currents from different branches of 12 pulse rectifier in parallel.

*Technical information*
Power Rating 2 MVA, Inter-bridge Voltage up to 6 kV, Maximum Output current 12 kA.
Matching Transformers

**Description**

Purpose of these transformers is to adapt the power line voltage to the required voltage by the load and to provide galvanic separation between load and power line. They can also provide a neutral connection, that can be isolated or grounded.

**Technical information**

- **Single Phase**
  - Rated Power from 1.5 to 100kVA;
  - Primary/Secondary voltage 380 V / 230 V;
- **Three Phase**
  - Rated Power from 2 to 250kVA;
  - Primary/Secondary voltage 380 V / 230 V.

Transformers with built-in reactor

**Description**

Purpose of TIN integrated transformers is to adapt the UPS converter output voltage to the line voltage required by the load and to provide galvanic separation between UPS and load. The integrated inductance, in combination with the output capacitors, operates as a filter.

**Technical information**

- **Single Phase**
  - Rated Power up to 500kVA;
  - Primary/Secondary voltage 200 V / 230 V;
- **Three Phase**
  - Rated Power up to 1 MVA;
  - Primary/Secondary voltage 200 V / 400 V.
- ISO 9001:2008 Quality Management System
- OHSAS 18001: Occupational Safety & Health Administration
- UL Listed Mark: Underwriters Laboratories Mark
- ETL Listed Mark: Intertek’s Safety Mark recognized all over North America
- EN15085: compliance with Railway application requirement
- 5S: Methodology for work space efficiency and effectiveness
- ISO 14001: Environmental Management in progress

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