Power Supplies
WE SUPPLY POWER

SYSTEM SOLUTIONS
ENCLOSURES & COMPONENTS
ROTARY SWITCHES
Elma has been a competent and innovative specialist of optimal power supply solutions since 1960. From the smallest 0.25 Watt converter for PCB mounting to the scalable 500,000 Watt cabinet for outdoor applications: Elma develops, produces and sells power supplies for various applications in the industry, transportation, medical, defense and telecommunications sectors. We offer a wide range of standard products, which can be modified, developed or produced on request to meet specific customer requirements. Elma thus ensures a suitable solution for all your customers’ demands.

STANDARD RANGE OF PRODUCTS

Our standard range of AC/DC, DC/DC and DC/AC converters includes all common designs. Several thousand products in stock guarantee optimal availability at all times.
CUSTOMIZED PRODUCTS

Elma established itself as a leading supplier of standard and customized solutions thanks to our experienced engineering team and selected partners. Our power supply competence center develops the right solution to meet every requirement.

SEMI-CUSTOM

Semi-custom defines products that differ in minor details from existing standard products. Such modifications can be, for example, mechanical adaptations to enclosures or front panels, or electronic adaptations such as custom output voltages.
Industry
Examples: High-performance power supplies for laser applications in materials processing, waterproof and dust-proof power supplies for use in tough environments.

Transportation
Examples: Reliable DC/DC converters for train control systems in accordance with the applicable standards for the railway sector, robust DC/AC inverters for controlling signals and switch motors in the tracks sector, as well as battery chargers for rail vehicles.

Medical
Examples: Specially isolated power supplies for instruments with patient contact (2 x MOPP) according to EN 60601-1, or power supplies to EN 60601-1-3 (EMC).

Defense
Examples: Redundant power supplies for use in tough environments and for “mission-critical” applications according to MIL standards.

Telecommunication
Examples: High-performance power supplies for powering servers or redundant power supplies for powering transmission equipment.
INDUSTRIES AND APPLICATIONS

Industries

The demands placed on power supplies vary from industry to industry. Such demands can range, for example, from a protective coating for the transportation sector to enhanced personal protection for body-worn medical instruments or specific environmental requirements for products used in the defense sector.

As a system supplier, Elma caters to many industries and applications and boasts an extensive yet very specific know-how of the requirements in the respective sectors. This allows for a perfect solution for the customer needs. Therefore, it is important to not only identify and satisfy the needs, but also to understand how the power supplies are used. In many cases, it proves possible to meet all requirements with a customized development, which would be difficult to achieve with a standard solution. It is also and especially in such situations that Elma’s expertise and experience provide the necessary backbone for a suitable product.

Applications

Power supplies come in various designs, performance classes and with different normative approvals, with or without ventilation, for the use in different environmental factors, and in many other variations. Elma delivers appropriate power supply solutions for virtually all requirements. We provide suitable products even for applications such as railway and defense battery chargers or uninterruptable power supplies.

Our high-quality products are used in a variety of applications and industries. Especially in the industrial, transportation, telecommunication, medical and defense sectors. We have proven ourselves to be a competent and reliable partner.
Elma Electronic AG develops and produces high-performance electronics and suitable enclosures from single components to entire systems for industry, railway technology and medical equipment. With over 100 employees in Switzerland alone, we offer innovative, high-quality products, customer-specific solutions and engineering services.

Our key strengths include a high level of development competence and an extensive electronics portfolio. From rotary switches and other electromechanical components to backplanes, computer and storage solutions, power supply units and electronic packaging, all the way to fully integrated systems. On this basis, we are in a position to develop new and trendsetting solutions quickly and safely – in top quality and convincing design, as prototypes or ready for series production.

We are listed on the Swiss Stock Exchange and represented around the world: The Elma Group – Elma Europe, Elma America and Elma Asia – includes subsidiaries in ten countries and a global sales network. In the customer’s interest, we co-operate with leading technology providers in the sector and are ourselves regularly approached for advice. Everything from a single source, proven standards, outstanding solutions: Choose Elma Electronic AG.