

Powerbox: Designing a vast range of power supplies

Powerbox has been in business for more than 25 years. We have designed thousands of different power supplies in power ranges from 1 W to 10's of kW in all quadrants AC/DC, DC/DC, DC/AC and AC/AC converters. The foundation of a development is the customer's



need, priorities and requirements and based on these we utilize the technologies, components and topologies that best fit the product. Of course, we re-use earlier designs as much as possible to make use of previous experience and knowledge. However, for some developments this is not enough and we have to do research to find the optimal solution. During the development process, we continuously verify that the result will meet applicable laws and standards as well as the required certification and environmental requirements defined in the design specification.

Common requirement

Each market segment has its own set of requirements that must be considered and fulfilled. The requirements are of course different, but they have one thing in common. All have precisely defined demands for voltage, current, power, and

performance to ensure reliable and continuous operation. In selecting the optimal power supply it is essential to ensure that the characteristics of the power supply are correctly matched to those of the application. For example, in the medical sector, where the

continuous operation of a power supply can be a matter of life or death, both safety and reliability issues are major concerns. Our long and very broad experience in power supply development enables us to offer you custom designed products for a wide variety of electronics. Everything from small to very large, from one input to many inputs, from ultra low voltage (few V) to high voltage (10's of kV), etc. Our strength is in complex designs with many output voltages, high isolation and tough environmental conditions. With many years experience in designing power supplies there is practically no application beyond our capability. We are able to offer a wide range of power supplies mainly developed for equipment for the transmission of analog and digital

extensive skills in providing power supply products for the Broadcasting market. One factor behind the success is the Italian design team's skills in the unique designing aspects for this specific market. Powerbox offers advanced and reliable technical solutions in line with the company's strategy. Broadcasting applications include:

- High power analog /digital TV transmitters
- MMDS modulator
- TV Exciters
- Audio Mixers
- Compact high power amplifier
- FM Transmitters

Worldwide production

For all these applications the reliability of the power supply is mandatory. Down time is very expensive and any failure or service may also be costly due to remote locations and tower mounted equipment. Powerbox makes the design, the prototyping and the pre-compliance tests of the units, whereas the manufacturing is taken care of by qualified partners. The cooperation is very close, allowing easy and fast feedback from the factory to the designer to assure that the units are designed for manufacturability. The

manufacturing partners are located both in Italy and in Eastern Europe. The Eastern European partners are mainly used for mature products and higher volumes. Certification support is given to customers.

This covers everything from providing CB reports to actually managing certification (Powerbox has an agreement with Nemko). The units include features such as power factor correction circuit, remote control/inhibit, current and voltage monitoring. The output power ranges from

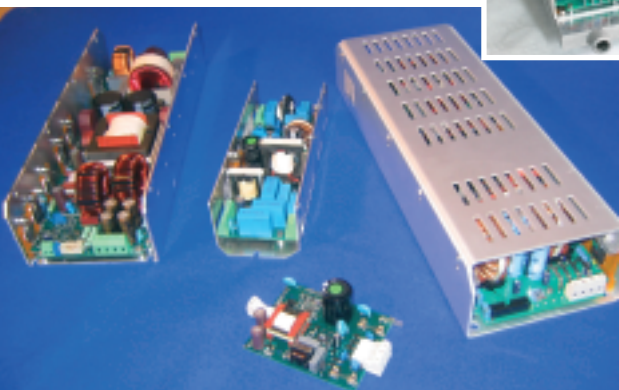
modules of 10 W up to 2.500 W delivered as single units or arranged in systems. Based on its skilled, experienced organizations in Europe, USA, Australia, China, Singapore and Israel, Powerbox Italia is uniquely placed to support its worldwide production and service obligations.

Europe 500

The concept of establishing local offices with local people has proved to be very successful and has contributed to the rapid growth of the Powerbox Group, today and during the past decades. This achievement have been acknowledged by the award "Europe 500," issued by the EU commission in recognition of Powerbox status as one of the top 500 growth companies in Europe. Human resources are the most powerful asset of Powerbox.

Experience combined with regular training for everyone develops personal competence and strengthens the company's knowledge base. This powerful combination provides the essential personal and corporate qualities, which are necessary to meet the challenging demands of power supply marketing and manufacture. Each individual at Powerbox has a personal development plan and is given both the encouragement and the opportunity to advance their personal and professional skills. Through training and personal development we strive to ensure that corporate and individual goals are aligned; that teamwork is emphasized, and that "job satisfaction" is achieved.

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television signals or FM transmission. Following an ever-increasing number of new customers and products, Powerbox Italia has developed