

Excelsys Technologies

next generation power source

World Class Custom Engineering

Turn-Key Custom Power Supply Design

Leading Edge Platforms

Digital Control and Communications experience

High Efficiency

Advanced Tools and Simulation capabilities

Dependable “On-Time” and “In Budget” solutions

Award Winning Manufacturing

Excelsys: Excellence

Combining the latest technology, management methods and customer-centric service philosophy with a 20 year tradition of reliable and innovative switch mode power supply design, manufacture and sales, Excelsys offers total customer satisfaction offering a superior price:performance ratio to our customers.

Where advice, support and high quality power solutions are needed, Excelsys excels!

- **World class custom power supply design** Excelsys applies the most modern and rigorous processes and design techniques including thermal modeling, simulation techniques and HALT.
- **Over 200 man-years design experience** We have assembled an impressive array of power electronics talent comprising over 200 years aggregate industry experience and encompassing all of the core skills necessary to deliver custom power solutions to a wide-range of markets and applications.
- **Leading edge platforms providing high efficiency solutions** Excelsys focuses on providing products with industry-unrivalled efficiencies, exceeding 90%, which leads to a significant reduction in heat dissipation, and associated improvement in reliability
- **Digital control and communications expertise** Excelsys has significant experience in providing solutions with integrated control, monitoring and communications including PMBUS and I²C. Digital control can greatly enhance system flexibility and performance.
- **Dependable “On-Time” and “Within Budget” solutions** Excelsys cross-functional, process-centric, design teams employing concurrent engineering and modern program management techniques ensure reduced development costs and maximum lifetime revenue
- **Highest Quality** Our custom products are manufactured in an award winning ISO9000 certified manufacturing facility in China, utilising state-of-the-art manufacturing equipment and test process methodologies including AOI (Automated Optical Inspection) and ESS (Environmental Stress Screening).
- **Safety Approvals** Excelsys has extensive experience in designing products that are fully compliant with relevant international safety agency requirements including EN60950, EN60601 (medical), UL and CCC certification, greatly reducing the risk of project delays and ensuring budget adherence.
- **Environmentally Conscious** Understanding and contributing to an improved environment is a important driver for Excelsys Technologies, Excelsys is committed to providing the highest efficiency power supplies to help reduce energy consumption. Furthermore, all our products are RoHS compliant. For more information, contact Excelsys Technologies.

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Excelsys

Excelsys Technologies Limited is the leading designer and manufacturer of high efficiency, low profile power supplies for a variety of markets including Industrial, Automation, Medical, Datacom, Telecom and Military.

Headquartered in Cork, Ireland, Excelsys is creating a new standard in world class customer service through the application of principles of excellence in channel partnership, product quality, manufacturing efficiency and the innovative use of new technology.

Excelsys: Customer Focus

When your system power needs cannot be fully addressed by our XGen Modular Configurable product range and your volume requirements justify the development of a customised solution for your application then Excelsys can utilise its world class power design capability to realise an optimal solution customised to your specific requirements.

Our low risk approach leverages proven technology platforms and building blocks to ensure that we meet cost and performance specifications without compromising the time-to-market for your own product launch.

Our people and processes are set-up to act as an extension of your internal resources, working as your trusted and expert partner at all stages of the project. In advance of project kick-off we will work with you to ensure selection of optimum system power architecture and design concepts. We are adept at refining the power specifications in order to ensure optimal cost / performance trade-offs, eliminating potential ambiguities and highlighting any areas of risk associated with your project.

Excelsys: Virtual Model

In order to offer our customers the most cost-effective service, from product concept to end of life, we have adopted an innovative semi-virtual business model. Front-end power architecture and concept definition, program-management and application-support is offered by a dedicated Excelsys custom engineering manager and support team located at Excelsys headquarters in Cork, Ireland.

Detailed product design and qualification is undertaken by an Excelsys managed team of Power Electronics specialists co-located in Hong Kong/China with our world class LEAN Six Sigma manufacturing partner. The proximity of this highly experienced product development team to the manufacturing location ensures successful synthesis from design to volume manufacture.



Communications



Medical



Military



Industrial

Whilst the cost benefits of Asian design and manufacture region are widely promoted, Excelsys differs from our competitor's business models in that we retain the flexibility to scale both development and manufacturing operations in line with the needs of our customers. This allows Excelsys to maintain a low-overhead, cash-effective and scalable business model which in turn allows us to offer our customers exceptional value for money. The majority of the engineering staff within both Excelsys and our Manufacturing partner have worked together as a custom design and support team at Artesyn Technologies Inc. for several years. During this time we have successfully served the custom power supply requirements of a wide range of customers, markets and applications.

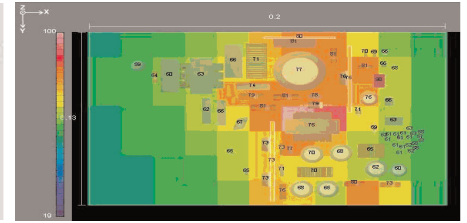
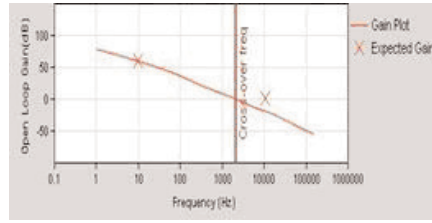
The team has designed power solutions for a diverse range of applications including use in server, switch, optical transmission, radio base station, xDSL, adapter, printer, industrial control, medical and military (COTS) products. This vast level of experience helps facilitate the success of the Excelsys business model and makes our value proposition even more compelling.

Excelsys: Design Team Credentials

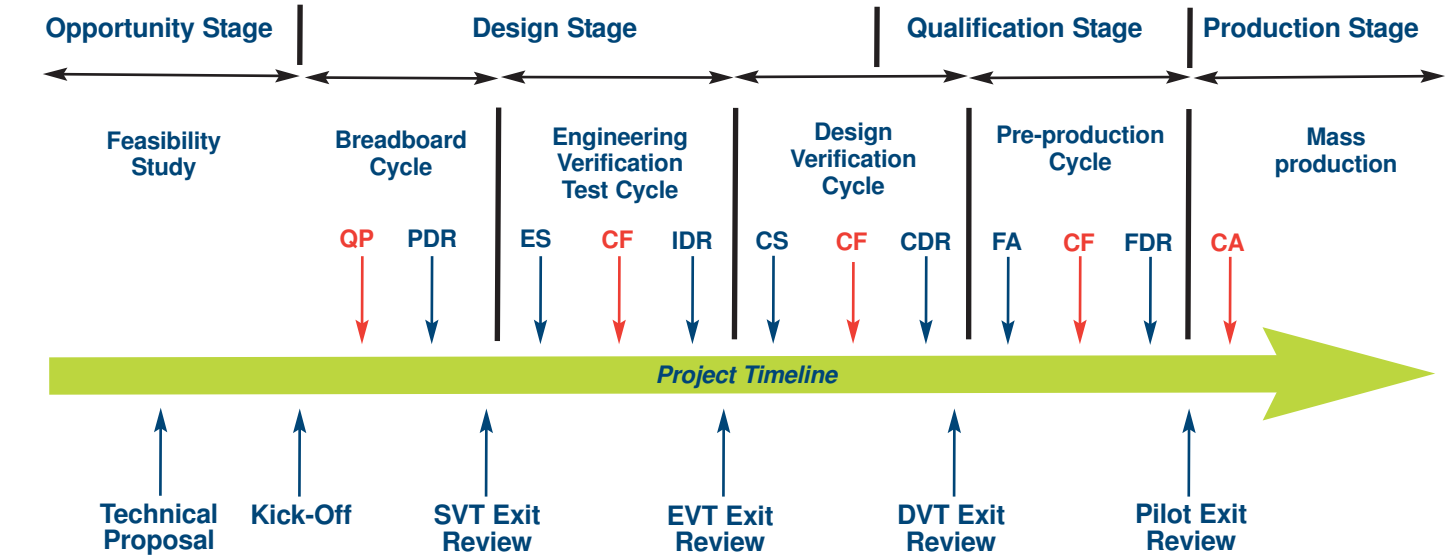
We have assembled an impressive array of power electronics talent comprising over 200 years of aggregate industry experience and encompassing all of the core skills necessary to deliver custom power solutions to a wide-range of markets and applications. The core of the design team has worked together for over seven years and has developed an exceptionally strong cross-functional, process-centric culture. Strategic alignments are maintained with key suppliers and external academic institutes to allow low-risk adoption of the latest components and topologies which translates into superior electrical efficiency, lower noise and improved power densities and communication options for our customers.

Excelsys: Project Development Process

In order to further remove project risk and accelerate time to market we utilise 3D modeling, thermal simulation, control loop stability analysis and circuit simulation techniques. This information is freely exchanged with our clients and underpins our commitment to being viewed as an extension of the internal resources, working as the power experts within our customer's product development team.



A multi-phase gate development process is carried out by the cross-functional project team and the clearly defined deliverables are scrutinised in detail at each of the phase exit reviews.



QP : Qualification Plan
PDR : Preliminary Design Review
SVT : Sample Verification Test
ES : Engineering Samples
CF : Customer Feedback
IDR : Intermediate Design Review

EVT: Engineering Verification Test
CS: Commercial Samples
CDR: Critical Design Review
DVT: Design Verification Test
FA: First Articles (Pilot Samples)
FDR: Final Design Review

CA: Customer Approval

Excelsys: World Class Manufacturing

Our custom products are manufactured in an award winning manufacturing facility in China utilising state-of-the-art manufacturing equipment and process methodologies. The operations are established along LEAN principles and employ Total Production Innovation (TPI) and Business Process Innovation (BPI) programs which improve efficiency and eliminate waste at every stage of the process. The location spans 33,000 m² with over 30 SMT lines and 3500 employees. An impressive array of in-house technical support resources is maintained, including a nationally certified calibration laboratory and a lab equipped to perform full RoHS analysis.

These comprehensive resources have been established in order to serve the needs of the most demanding OEM customers, operating in global markets with a strong commitment to quality, corporate social responsibility and the environment.

