

## **Product news**

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### **Modular AC/DC power supply uses innovative architecture**

Excelsys Xgen power supplies employ an innovative architecture, based on a master AC/DC powerPac and multiple plug-in DC/DC powerMod output modules. These supplies are designed specifically for fast user configuration in the development laboratory or field. Users simply select a powerPac with the appropriate power rating and plug in the powerMods to provide the DC voltages and currents they require. According to Excelsys VP of Sales Jim Oursler: "the ability to configure a custom power supply on site– using standard off-the-shelf modules – brings unprecedented flexibility to system designers, enabling them to dramatically shorten development lead-times."

The powerPacs feature a universal 85-265VAC input and employ an advanced synchronous rectifier based converter topology with current shaping to provide power factor correction, and generate a relatively high internal DC bus voltage to supply all the powerMods. This approach maximises the conversion efficiency of the overall system, and contributes to its very high power density of more than 15 Watts/in<sup>3</sup>. For example, a power supply comprising a 1200W powerPac fitted with four 24V@12A (288W) powerMods has a typical full load efficiency in excess of 90%, when operating from a 230V input. The powerPacs are fitted with field replaceable cooling fans and are rated for full power operation over an operating temperature range of -20 to +50°C; they can also be used up to 70°C, with derating. Remote alarm signalling is optionally available, covering AC input failure, fan failure and over-temperature conditions.

All Excelsys Xgen series power supplies have a 4000VAC input/output isolation rating and carry a full set of international safety approvals, including EN60950 and UL1950. The supplies are also available in medically approved versions which meet the EN60601-1 and UL2601 standards.

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**Note to editors:**

Excelsys Technologies Ltd. is a modern and progressive world-class power supply company providing quality products to OEM equipment manufacturers around the world. Excelsys has achieved this by combining the latest technology, management methods and total customer service philosophy with a 20 year tradition of reliable and innovative switch mode power supply design, manufacture and sales. Excelsys Technologies Ltd. formerly traded as Delaire Ltd.

