

Low-Cost Digital POL Modules Provide 60 Amps at Over 92% Efficiency

Data sheet link: <http://www.power-one.com/resources/products/datasheet/zy8160.pdf>

Camarillo, CA – August 2nd, 2007 – Power-One, Inc. (Nasdaq: PWER) introduces the 60-amp ZY8160; the highest current digital Point-of-Load (POL) module in the Z-One[®] family of products. This fully-programmable DC-DC converter provides industry-leading power management capabilities with no additional cost or space requirements when compared to analog “conversion only” solutions. ZY8160-based systems can reduce development time, components, and PCB traces by up to 90%. This product is targeted for the server market, but is also well suited for Power-One’s other markets, such as communications.

Bill Yeates, Power-One’s CEO, commented, “The ZY8160 is an exciting addition to our maXyz[®] Z-Series and provides the advantages of open-architecture digital power management to high-current data server, storage, and communications applications. The ZY8160 extends the digital-power leadership position of Power-One, and the Z-Alliance, in terms of the number of solutions currently available, demonstrated advantages offered to our customers, and markets served. By increasing the power output of our products, we now have a much broader portfolio from which customers can choose. The digital power management capabilities coupled with very high conversion efficiency will generate interest from data processing and networking customers.”

When used with ZM7000 Series Digital Power Managers (DPMs), the ZY8160 facilitates the complete elimination of external components for sequencing, tracking, protections, monitoring, and reporting. All parameters of the ZY8160 are programmable via the industry-standard I²C communication bus. The Graphical User Interface (GUI) facilitates ongoing monitoring of performance parameters and the ability for “on the fly” operating-parameter changes, without hardware changes, at any time during system development or service.

Programmable parameters include, but are not limited to: output voltages, sequencing, tracking, feedback loop compensation, and protection limits. These user-defined settings are stored in a DPM and are used to initialize the ZY8160 during system startup. Unlike many other power management solutions, a ZY8160-based solution can operate autonomously in any system and does not require users to provide an I²C interface, host processor, or non-volatile memory.

Other elements in the ZY8160 feature set include:

- Wide input (8V–14V) and output (0.5V–2.75) ranges power a variety of applications with only one part number to inventory.
- ZY8160-based systems can be configured to manage up to 32 digital POLs and analog components such as VRMs, LDO regulators, and fans.
- Compact packaging: 2.4” x 0.55” (61 x 10.4mm) SIP footprint and 1.1” (28mm) height ideally match mechanical requirements for blade servers
- Active digital current sharing.
- Real-time monitoring and reporting of output voltage, output current, operating temperature, and the status of all protections.
- Ramp rates and delays are easily set up using the Z-One GUI. The turn-on and turn-off of all outputs are controlled by the same clock, providing unsurpassed digital-timing precision.

RoHS lead free and lead-solder-exempt products are available. Certifications to UL60950-1, CSA C22.2 No. 60950-1, and TUV EN60950-1:2001 are pending. Pricing is \$18 each in quantities of 1000. Samples and production quantities are typically available in six to eight weeks.

Power-One products power high-availability infrastructure applications such as: alternate energy, routers, data storage and servers, wireless communications, optical networking, medical diagnostics, railway controls, and semiconductor test equipment. Power-One, with headquarters in Camarillo, CA, has global sales offices and manufacturing and R&D operations in China, the Dominican Republic, Hungary, Ireland, Italy, Slovakia, Switzerland, and the United States. Please visit www.power-one.com for more information.

Power-One products are not designed, intended for use in, or authorized for use as critical components in life support systems, equipment used in hazardous environments, or nuclear control systems without the express written consent of the respective divisional president of Power-One, Inc. The appearance of products, including safety agency certifications pictured on labels, may change depending on the date manufactured. Specifications are subject to change without notice.