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**News
Release**

Date July 22, 2008
For Release Immediately
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Eaton Unveils 400V UPS Configuration To Power Data Centers In North America, Allowing Energy Savings And Efficiency Gains

RALEIGH, N.C. ... Diversified industrial manufacturer Eaton Corporation today announced its award-winning Eaton 9390 and Eaton 9395 uninterruptible power systems (UPSs) in 400V UL-listed configurations. These systems allow consulting-specifying engineers (CSEs) and customers in North America the ability to recognize significant energy savings and efficiency gains while employing proven technologies and architectures.

Of the several alternative power distribution systems currently found in the U.S. and Canada, 400V AC and 600V AC systems are generally accepted as the most viable. While the 400V power scheme is common in Europe, the Middle East and Asia (EMEA), Eaton is the first to offer this configuration with UL approval in North America. Continuing its legacy of innovation with three-phase UPS technology, Eaton leveraged the transformer-free design of the 9390 and 9395 systems to provide a 400V AC solution specifically for North American markets.

Eaton conducted a quantitative comparison of these configurations to demonstrate the 400V AC power distribution system offers the highest degree of electrical efficiency for modern data centers, significantly reducing capital and operational expenditures and total cost of ownership as compared to both 600V AC and 480V AC power systems. Traditional 480V AC and the newly touted 600V AC power systems have an approximate end-to-end efficiency of 76 percent while 400V AC architecture has an end-to-end efficiency of 80 percent.

As power and cooling costs continue to rise, there is a realization that the cost of Information Technology (IT) equipment is no longer the limiting factor in the size and scope of the data

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center. Instead it is the support infrastructure and costs associated with powering the computer, telephony and network equipment.

“UPS vendors are constantly looking to improve system efficiency and performance. Our 400V configuration offers a space-saving alternative to conventional power distribution in the data center and requires no changes to IT devices and power loads,” said Jim Davis, business unit manager, Power Quality and Control Operations, Eaton. “With 400V implementations of our 9390 and 9395 systems, we deliver clean power directly to the IT rack at 230V without the need for a stand-alone power distribution unit (PDU). This approach further maximizes energy and cost savings and conserves valuable data center floor space. Between the transformer-free designs of the 9390 and 9395 and removing the need for a PDU, the energy, footprint and cost savings are significant.”

To download Eaton’s “Alternative Data Center Power” white paper complete with end-to-end efficiency diagrams and detailed capital and operating expenditure comparisons, visit www.eaton.com/400volt. To learn more about Eaton’s complete series of power quality products and services, visit www.eaton.com/powerquality.

Eaton’s electrical business is a global leader in power distribution, power quality, control and industrial automation products and services. Eaton’s global electrical product lines, including Cutler-Hammer®, Moeller®, Powerware®, Holec®, MEM®, Santak®, and MGE Office Protection Systems™ provide customer-driven PowerChain Management® solutions to serve the power system needs of the data center, industrial, institutional, government, utility, commercial, residential, and OEM markets worldwide.

Eaton Corporation is a diversified power management company with 2008 sales of \$15.4 billion. Eaton is a global technology leader in electrical components and systems for power quality, distribution and control; hydraulics components, systems and services for industrial and mobile equipment; aerospace fuel, hydraulics and pneumatic systems for commercial and military use; and truck and automotive drivetrain and powertrain systems for performance, fuel economy and safety. Eaton has approximately 70,000 employees and sells products to customers in more than 150 countries. For more information, visit www.eaton.com.

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