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### **Toshiba 650 kVA Model G9000 Series Uninterruptible Power System Earns ENERGY STAR Rating**

**HOUSTON, TX—August 17, 2015**—The latest model of Toshiba’s G9000 Series of uninterruptible power systems (UPS), the 650kVA G9000, has received the ENERGY STAR™ qualification backed by the Environmental Protection Agency (EPA). The complete G9000 Series product line, from 100 kVA to 1,000 kVA, now exceeds the required 94% efficiency rating defined by the specification framework.

ENERGY STAR is a federal initiative created by the EPA and the U.S. Department of Energy to help consumers to identify quality products that meet strict energy-saving guidelines, as well as to protect the environment through energy-efficient products and practices. The entire G9000 Series product line was recognized as meeting the stringent standards set by the EPA for ENERGY STAR compliance.

“The 650kVA model G9000 Series UPS is the next step in our expanded product line targeted at better serving the datacenter industry,” said Greg Mack, Vice President and General Manager of the TIC Power Electronics Division. “The renowned efficiency and three-year warranty position the G9000 as a reliable and updated UPS option for 650kVA installations.”

The Toshiba G9000 Series UPS is purpose-built from the ground up to allow for flexible, custom installations for datacenters, co-locations, call centers, and financial institutions. Using Toshiba IGBT technology in the rectifier/converter, DC/DC chopper, and inverter sections, the G9000’s double-conversion topology provides an AC/DC/AC efficiency of up to 97% at loads from 50% to 100%. At 20% loading, the efficiency remains at approximately 95%, ideal for redundant parallel systems where loads are typically 25 to 40%. The energy-efficient design significantly lowers installation and operational expenses in comparison to traditional requirements.

The all-IGBT design of the G9000 Series also eliminates the need for a front-end harmonic filter and produces less than 3% input current total harmonic distortion. The exceptional dynamic response of its inverter eliminates the need for an output transformer, improving efficiency and reducing weight, noise, and total footprint. They feature an input power factor greater than 0.99, a wide input voltage range of +15% to -20%, and an output power factor rated at .9 (100-225 kVA) or unity (300-1000 kVA). The G9000 supports 100% unbalanced loads and 100% step-load changes without battery discharge, and can support monitoring via SNMP, MODBUS, and other protocols.

#### **About Toshiba International Corporation**

TIC is a Toshiba America Inc. (TAI) Group Company, a wholly owned subsidiary of Toshiba Corporation. TIC is headquartered in Houston, Texas and employs approximately 2,000 people. TIC provides application solutions to a wide range of industries including industrial, power systems, and transmission and distribution systems. For more information about TIC, please visit [www.toshiba.com/tic](http://www.toshiba.com/tic).

#### **About the TIC Power Electronics Division**

The TIC Power Electronics division has more than 25 years of experience in uninterruptible power systems. Toshiba produces a versatile range of single-phase and three-phase UPS solutions and

accessories hallmarked for outstanding performance and reliability. Single-phase models range from 1 to 22 KVA, while three-phase single module systems range from 15 to 1,000 KVA, and three-phase parallel module systems from 100 to 8,000 KVA. These systems are suitable for a wide range of applications including data centers, telecommunication, retail, healthcare, broadcasting, and industrial. For more information please visit [www.toshibaups.com](http://www.toshibaups.com).

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