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ON Semiconductor Introduces Intelligent Power Modules that Integrate Pre-Driver and Output Stage with Bootstrap and Protection Functions

Portfolio Includes 10 A, 15 A, and 20 A Devices for White Goods and Industrial Motor Applications

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PHOENIX, Ariz. – March 11, 2014 - >- ON Semiconductor (Nasdaq: [ONNN](#)), driving energy efficient innovations, has introduced seven highly integrated three-phase **intelligent power modules (IPM) for motor controls** in white goods and industrial applications. The highly integrated hybrid device portfolio contains all of the power stage functions, including pre-driver and output stage power devices with boot strap diodes, under-voltage protection, and over-current protection.

The IPMs are composed of power devices and gate drivers with 600 volts (V) maximum voltage, and the maximum operating voltage for the inverter units is 450 V. STK544UC62K-E, STK551U362A-E, STK554U362A-E, and STK554U362C-E deliver maximum output current of 10 amperes (A); STK551U392A-E and STK554U392A-E deliver maximum output current of 15 A; and STK551U3A2A-E delivers maximum output current of 20 A.

These IPMs can operate at a switching frequency up to 20 kilohertz (kHz). Insulated Metal Substrate Technology (IMST®) from ON Semiconductor enables the IPMs to deliver high power efficiency with low noise. The high integration levels of the devices themselves, combined with the smaller external components, enable the power system control boards to be physically smaller, with fewer components, fewer high voltage circuit board traces, and less complicated assembly.

“In the white goods market, power efficiency continues to be a priority,” said Chris Chey, general manager of the IPM division of ON Semiconductor. “The integration level of these Intelligent Power Modules helps our customers increase efficiency and reduce noise in white goods control circuits, while reducing design time.”



The [GreenPoint® online analysis tool](#) from ON Semiconductor provides an interactive environment to analyze IPM performance. Users can select the device to analyze, set operating conditions, view performance simulations, and download results.

Packaging and Pricing

The STK544UC62K-E is offered in Pb-free SIP-23 packages. The STK551U362A-E, STK554U362A-E, STK554U362C-E, STK551U392A-E, STK554U392A-E, and STK551U3A2A-E are offered in Pb-free SIP-29 packages. Budgetary pricing ranges from \$6.00 to \$8.40 per unit.

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About ON Semiconductor

ON Semiconductor (Nasdaq: ONNN) is driving energy efficient innovations, empowering customers to reduce global energy use. The company offers a comprehensive portfolio of energy efficient power and signal management, logic, discrete and custom solutions to help design engineers solve their unique design challenges in [automotive, communications, computing, consumer, industrial, LED lighting, medical, military/aerospace and power supply applications](#). ON Semiconductor operates a responsive, reliable, world-class supply chain and quality program, and a network of manufacturing facilities, sales offices and design centers in key markets throughout North America, Europe, and the Asia Pacific regions. For more information, visit <http://www.onsemi.com>.

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