NEWS RELEASE

1200 V Dual-Channel Gate-Driver Core From Power Integrations Eliminates Opto-Couplers

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Smallest IGBT gate-driver for 90 kW-500 kW inverters

SAN JOSE, Calif.--(BUSINESS WIRE)-- Power Integrations (Nasdaq:POWI), the leader in IGBT-driver technology, today launched its 2SC0115T2A0-12 dual-channel gate-driver core for 90 kW to 500 kW inverters and converters. Leveraging SCALE™-2+ integrated circuit and isolated transformer technology for DC/DC power and switching signal transmission, the new driver core improves system reliability and performance by eliminating the need for an opto-coupler. The driver core’s reinforced electrical isolation targets systems with a working voltage of 900 V, which is typical for 1200 V IGBT modules and complies with the PD2 and OV II requirements of IEC 60664-1 and IEC 61800-5-1. The 2SC0115TA0-12 gate-driver core supports modules up to 2400 A and switching frequencies of up to 50 kHz.

This Smart News Release features multimedia. View the full release here: http://www.businesswire.com/news/home/20150519005699/en/

2SC0115T (Photo: Business Wire) With a footprint of 53.2 x 31 mm and a profile of just 13 mm, the 2SC0115TA0-12 gate-driver core is the most compact industrial unit of its type available. The highly integrated SCALE-2+ chipset uses about 85% fewer components than competing products and includes short-circuit protection by Vce-sat monitoring and independent supply-voltage monitoring from both the primary and secondary side. The new gate-driver core includes Soft Shut Down (SSD) protection for applications with low stray-inductance. For more demanding environments the 2SC0115TA0-12 supports full Advanced Active Clamping (AAC) to control the IGBT voltage overshoot during turn-off.

Each of the two output channels is electrically isolated from the primary side and the other secondary channel. An
output current of ±15 A and 1.2 W drive power is available per channel with a gate voltage swing of +15 V to -6 V. The turn-on voltage is regulated to maintain a stable 15 V regardless of the output power level.

Comments Michael Hornkamp, senior director of marketing for high-power products at Power Integrations: “The 2SC0115TA0-12 gate-driver core is an ideal platform for 600 V and 1200 V IGBT modules in medium power applications such as general purpose drives, UPS, photovoltaic inverters and medical applications, especially those with challenging, fast-switching requirements.”

For more details please visit http://www.power.com/products/2SC0115T

About Power Integrations

Power Integrations, Inc. is a leading innovator in semiconductor technologies for high-voltage power conversion. The company's products are key building blocks in the clean-power ecosystem, enabling the generation of renewable energy as well as the efficient transmission and consumption of power in applications ranging from milliwatts to megawatts. For more information please visit www.power.com.

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