

# 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  $\pm 15$  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](http://www.power.com).

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