

CONCEPT Extends Family of High-Voltage IGBT Gate Driver Cores With New, Versatile, Space-Saving 4.5 kV and 6.5 kV Products

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New high-voltage family provides choice for traction and other high-voltage designers

BIEL, Switzerland--(BUSINESS WIRE)-- IGBT gate driver manufacturer CT-Concept Technologie GmbH, a Power Integrations company, has announced the availability of its 1SC0450V single driver core for IGBT modules with blocking voltages of 4.5 kV and 6.5 kV. This highly compact new product enables IGBTs to be paralleled using only one driver core, which further reduces system size and increases reliability.

A new member of CONCEPT's family of high-voltage gate driver cores, the 1SC0450V is based on the company's SCALE™-2 chip set and a partial-discharge-free, low-coupling-capacitance, high-voltage DC-DC transformer. An advanced transformer design allows test voltages up to 10.4 kVRMS and a partial discharge extinction voltage of 7800 Vpeak. The driver core measures just 60 mm by 90 mm long with a height by the DC-DC transformer of only 27.50 mm.

Explains Michael Hornkamp, CONCEPT's Director Regional Marketing and System Engineering: "Our family of high-voltage gate driver cores – which also includes the 2SC0535T 3.3 kV and 2SC0635T 4.5 kV dual gate driver cores – reduces component count, thereby making designs more compact and reliable." CONCEPT's 1SC0450V gate driver cores are suitable to drive all 4.5 kV and 6.5 kV IGBT modules currently available on the market. Target markets include traction and other high-voltage applications.

About CT-Concept Technologie GmbH

CT-Concept Technologie GmbH is the leading supplier of IGBT drivers for mid- to high-power applications, such as

industrial drives, renewable energy, traction and automotive equipment. With its SCALE-2™ chipset, CONCEPT has delivered a next-generation technology platform for scalable IGBT and power MOSFET gate drivers featuring significant advances in dynamic performance, accuracy, functionality, flexibility and time-to-market. For more information, please visit www.IGBT-Driver.com.

About Power Integrations

Power Integrations, Inc. (Nasdaq: **POWI**) is a Silicon Valley-based supplier of high-performance electronic components used in high-voltage power-conversion systems. The company's integrated circuits and diodes enable compact, energy-efficient AC-DC power supplies for a vast range of electronic products including mobile devices, TVs, PCs, appliances, smart utility meters and LED lights. CONCEPT IGBT drivers enhance the efficiency, reliability and cost of high-power applications such as industrial motor drives, solar and wind energy systems, electric vehicles and high-voltage DC transmission. Since its introduction in 1998, Power Integrations' EcoSmart® energy-efficiency technology has prevented billions of dollars' worth of energy waste and millions of tons of carbon emissions. Reflecting the environmental benefits of the company's products, Power Integrations' stock is included in the NASDAQ® Clean Edge® Green Energy Index, The Cleantech Index®, and the Ardour Global IndexSM. For more information, including design-support tools and resources, please visit www.powerint.com; visit Power Integrations' **Green Room** for a comprehensive guide to energy-efficiency standards around the world.

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Media Contact

Power Integrations, Inc.

Peter Rogerson, 1 408 414 8573

progerson@powerint.com

or

CT-Concept Technologie GmbH

Rita Bürgi, 41 32 344 47 47

rita.buergi@IGBT-Driver.com

or

Press Agency Contact

BWW Communications

Nick Foot, 44 1491 636 393

nick.foot@bwwcomms.com