

CONCEPT Ships First IGBT Driver Cores With New Space-Saving, Cost-Effective SCALE™-2+ Technology

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Integrated short-circuit soft shutdown function eliminates the need for full active clamping in low stray-inductance applications

BIEL, Switzerland--**(BUSINESS WIRE)**--IGBT driver manufacturer CT-Concept Technologie GmbH, a Power Integrations company, has announced shipments of its first products to include its SCALE™-2+ gate driver chip set. The new SCALE™-2+ technology enables soft shutdown (SSD) to be implemented in the event of a short circuit without requiring additional components. This is particularly beneficial in applications with low stray-inductance where full Advanced Active Clamping – a method invented by CONCEPT for shutting down IGBTs or MOSFETs in a controlled manner under any circumstances - may not be necessary.

CONCEPT's well-established SCALE™-2 IGBT driver cores deliver cost, performance, size and reliability benefits. SCALE™-2+ driver technology offers high levels of integration by including an integrated trigger mechanism which limits IGBT MOSFET Collector-Emitter, or MOSFET Source-Drain voltages in the event of a short circuit.

Explains Michael Hornkamp, Director Regional Marketing, CONCEPT: "We have implemented SSD on-chip without any additional external circuitry by controlling the on-chip high-side N-Channel booster stage. We increase the output impedance of the gate driver which enables the IGBT or MOSFET to turn off with a reduced di/dt, thereby limiting the Collector-Emitter or Source-Drain overvoltage. As a result, our new SCALE™-2+ drivers have integrated, cost-effective, short-circuit protection as well as increased flexibility and reduced size."

The first product to ship with the new SCALE™-2+ chip set is CONCEPT's 2SC0106T2A0-12. This is a high-performance two-channel IGBT/MOSFET gate driver core for 1200 V IGBTs in the 37 kW to 110 kW power range. The 2SC0106T2A0-12 is ideally suited for servo drives used in industrial applications, UPS and solar inverters. It meets

IEC 61800-5-1 and IEC 60664-1 standards for reinforced insulation.

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., 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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