

New Compact 6.5 kV IGBT-driver Cores From CONCEPT Feature Reduced Component Count for High Reliability

5/14/2013

Designed to drive up to four IGBT modules in parallel

BIEL, Switzerland--(BUSINESS WIRE)-- IGBT-driver manufacturer **CT-Concept Technologie AG**, a Power Integrations company, has launched the **1SC0450V**, a compact and robust single-channel gate-drive solution for 6.5 kV IGBT modules. The driver is able to support the operation of up to four IGBT modules in parallel, and the use of **CONCEPT's** proprietary **SCALE-2** ASIC technology results in a significantly lower component count compared to a discrete solution. This approach increases reliability, enabling a service life guarantee of over 15 years.

Featuring an on-board power supply, the drivers have a gate current of ± 50 A and operate from a +15 V/-10 V supply. Power capability is 4 W at 85°C. Devices can be configured for parallel operation of IGBT modules using one central driver. Isolation is in accordance with IEC 61800-5-1 and IEC 60664-1, and the UL-compliant devices also feature Advanced Active Clamping, short-circuit protection and under-voltage lockout.

Comments Wolfgang Ademmer , **CONCEPT's** CEO: "The **SCALE-2** ASIC technology integrates all functions: driving, monitoring, status acknowledgement, voltage supply (DC/DC converters) and isolation of all signals between the control and power sections, resulting in a compact, reliable and cost-effective solution. We also retain full design flexibility when considering protection strategies, interface circuitry and the partitioning of the power inverter."

Applications include traction, HVDC, STATCOM, wind-power converters and other medium-voltage converters/drives.

About CT-Concept Technologie AG

CT-Concept Technologie AG 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 driver systems 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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Source: CT-Concept Technologie AG

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