

## NEWS RELEASE

# Power Integrations Unveils New SCALE-iFlex LT NTC IGBT/SiC Module Gate Drivers with Temperature Readout

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SCALE-2 technology improves current sharing by 20 percent for the popular new dual style of 100 mm x 140 mm IGBT and SiC power modules

NUREMBERG, Germany--(BUSINESS WIRE)-- **PCIM 2023 – Power Integrations** (NASDAQ: **POWI**), the leader in gate-driver technology for medium- and high-voltage inverter applications, today introduced the **SCALE-iFlex™ LT NTC** family of IGBT/SiC module gate drivers. The new gate drivers target the popular new dual, 100 mm x 140 mm style of IGBT modules, such as the Mitsubishi LV100 and the Infineon XHP 2, as well as silicon carbide (SiC) variants thereof up to 2300 V blocking voltage. The SCALE-iFlex LT NTC drivers provide Negative Temperature Coefficient (NTC) data – an isolated temperature measurement of the power module – which enables accurate thermal management of converter systems. This is particularly important for systems with multiple modules arrayed in parallel, ensuring proper current sharing and dramatically enhancing overall system reliability.

Power Integrations Unveils New SCALE-iFlex LT NTC IGBT/SiC Module Gate Drivers with Temperature Readout (Graphic: Business Wire)

Thorsten Schmidt, product marketing manager at Power Integrations, commented:

“Designers of renewable energy and rail systems using SCALE-iFlex drivers already benefit from increased system performance; the SCALE-iFlex approach handles paralleling so expertly that one module in five can be eliminated without loss of performance or current de-rating. Adding an isolated NTC output reduces hardware complexity – particularly cables and connectors – and contributes to system observability and overall performance.”

Based on Power Integrations' proven **SCALE™-2** technology, SCALE-iFlex LT gate drivers improve current sharing

accuracy and therefore increase the current carrying capability of multiple-paralleled modules by 20 percent, allowing users to significantly increase the semiconductor utilization of their converter stacks. This is possible because the localized control of each 2SMLT0220D MAG (Module Adapted Gate driver) unit ensures precise control and switching, enabling excellent current sharing. Advanced Active Clamping (AAC) is employed to deliver accurate overvoltage protection.

To further increase space saving, up to four MAG-driven power modules can be parallel-connected from a single 2SILT1200T Isolated Master Control (IMC) unit, which can also be mounted on a power module due to its compact outline. The gate drivers are fully qualified to IEC 61000-4-x (EMI), IEC-60068-2-x (environmental) and IEC-60068-2-x (mechanical) specifications, and undergo complete type testing – low voltage, high voltage, thermal cycling – shortening designer development time by 12 to 18 months. A comprehensive set of protection features is included, and parts are optionally available with conformal coating.

## Availability

New **SCALE-iFlex LT NTC** gate drivers are available for sampling now. Please contact your local sales representative for pricing.

For more information, please visit [www.power.com/scale-iflex-lt-ntc](http://www.power.com/scale-iflex-lt-ntc).

## 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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