

NEWS RELEASE

Power Integrations Releases Ground-Breaking 1250-Volt GaN Switcher IC

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InnoSwitch3-EP 1250 V ICs underline company's continued leadership in high voltage GaN technology

NASHVILLE--(BUSINESS WIRE)-- **ECCE 2023 – Power Integrations** (NASDAQ: **POWI**), the leader in high-voltage integrated circuits for energy-efficient power conversion, today released the world's highest-voltage, single-switch gallium-nitride (GaN) power supply IC, featuring a 1250-volt PowiGaN™ switch. **InnoSwitch™3-EP 1250 V** ICs are the newest members of Power Integrations' InnoSwitch family of off-line CV/CC QR flyback switcher ICs, which feature synchronous rectification, FluxLink™ safety-isolated feedback and an array of switch options: 725 V silicon, 1700 V silicon carbide, and PowiGaN in 750 V, 900 V and now 1250 V varieties.

Power Integrations releases ground-breaking 1250 V InnoSwitch3-EP PowiGaN switcher IC
(Photo: Business Wire)

The switching losses for Power Integrations' proprietary 1250 V PowiGaN technology are less

than a third of that seen in equivalent silicon devices at the same voltage. This results in power conversion efficiency as high as 93 percent – enabling highly compact flyback power supplies that can deliver up to 85 W without a heatsink.

Radu Barsan, vice president of technology at Power Integrations, said: "Power Integrations continues to advance the state of the art in high-voltage GaN technology development and commercial deployment, rendering even the best high-voltage silicon MOSFETs obsolete along the way. We were first to market with high-volume shipments of GaN-based power-supply ICs in 2019, and earlier this year introduced a 900-volt version of our GaN-based InnoSwitch products. Our ongoing development of higher voltage GaN technology, illustrated here by our new 1250 V devices, extends the efficiency benefits of GaN to an even wider range of applications, including many currently served by silicon-carbide technology."

Designers using the new **InnoSwitch3-EP 1250 V** ICs can confidently specify an operating peak voltage of 1000 V, which allows for industry-standard 80 percent de-rating from the 1250 V absolute maximum. This provides significant headroom for industrial applications and is particularly valuable in challenging power grid environments where robustness is an essential defense against grid instability, surge and other power perturbations.

Availability & Resources

Samples are available now; volume-shipment lead time for 1250 V InnoSwitch3-EP ICs is 16 weeks. Pricing for InnoSwitch3-EP 1250 V devices in the INSOP-24D package starts at \$3.00 for 10,000-unit quantities. A reference design, **DER-1025**, describing a 12 V, 6 A flyback converter is available for free download. For further information, contact a Power Integrations sales representative or one of the company's authorized worldwide distributors: **DigiKey**, **Newark**, **Mouser** and **RS Components**, or visit **power.com**.

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**.

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