



SiC & GaN Power Component News

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2025:

[1200-V SiC MOSFETs With Schottkys Come In SOT-227 Modules](#), SemiQ's GCMX007C120S1-E1, GCMS007C120S1-E1, GCMX014C120S1-E1, GCMS014C120S1-E1, GCMX034C120S1-E1 and GCMS034C120S1-E1 modules, How2Power Today, December 2025.

[Flyback Converter ICs With GaN Power Switch Simplify Adapter Designs](#), STMicroelectronics' flyback converter ICs beginning with the VIPerGaN50W, How2Power Today, December 2025.

[Vendors Line Up To Support NVIDIA's 800-V Power Architecture For AI Data Centers](#), Report on OCP Global Summit-related news mentions STMicroelectronics' 12-kW GaN-based LLC converter, Power Integrations' 1250-V and 1700-V PowiGaN technology, Alpha and Omega Semiconductor's AOM020V120X3 or topside cooled AOGT020V120X2Q SiC devices, AOS' 650-V GaN FETs (the upcoming AOGT035V65GA1), and 100-V GaN FETs (such as the AOFG018V10GA1), Efficient Power Conversion's GaN-based, 6-kW 800 V-to-12.5 V converter based on an Input Series Output Parallel (ISOP) topology, EPC's 5-kW GaN-Based ac-dc reference design comprising the EPC91107KIT four-level Totem-Pole PFC and the EPC91110KIT Input-Series Output-Parallel (ISOP) LLC converter, Navitas' new 100-V GaN FET portfolio, Navitas' new line of 650-V GaN FETs, and Innoscience's third-generation GaN components, How2Power Today, November 2025.

[Chipmaker Samples 700-V And 1,200-V Vertical GaN Power Devices](#), Onsemi's vertical GaN devices, How2Power Today, November 2025.

[IGBT And SiC Power Module Families Offer Performance And Flexibility](#), CISSOID's CXT-PLA3BG07820RA IGBT power module, How2Power Today, November 2025.

[NSREC Notes: Advanced PWM Controllers, Power MOSFETs, Buck Converters And QML Parts Are Among The Latest Power Products For Space](#), Report on NSREC 2025 mentions EPC Space's EPC7C021 three-phase motor drive reference design, EPC7030MSH rad-hard 300-V GaN FET, EPCS4001 rad-hard PWM controller, EPC7011 GaN power stage, EPC7C023 and the EPC7C024 linear regulator demo boards, VPT's 100-W family of GaN-based hybrid dc-dc converters, TTM Technologies' TTM4306RH GaN half bridge with integrated drivers, How2Power.com, October 2025.

[75-mΩ 650-V SiC MOSFETs Target Medium-Power Applications](#), Infineon Technologies' CoolSiC G2 MOSFETs, How2Power Today, September 2025.

[GaN-Based Reference Design Shrinks Motor Drives For Humanoid Robots](#), EPC's EPC91118 motor drive reference design, How2Power Today, August 2025.

[1200-SiC MOSFETs In Top-Side-Cooled Package Enable High Power Density](#), Infineon Technologies' CoolSiC 1200-V G2 MOSFETs, How2Power Today, August 2025.

[Eval Board Demonstrates Compact 180-W Buck Converter For USB PD](#), Efficient Power Conversion's EPC91109 GaN-based two-phase synchronous buck, How2Power Today, August 2025.

[Bidirectional 650-V GaN Switch Enables More Efficient Power Conversion Across Multiple Applications](#), Infineon Technologies' CoolGaN bidirectional switch G5, How2Power Today, July 2025.



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[GaN-Based Inverter Reference Design For Medium-Voltage Motor Drives](#), EPC's EPC9196 BLDC motor drive inverter reference design, How2Power Today, July 2025.

[650-V GaN FETs Enable High-Density Power Conversion In Multi-Kilowatt Applications](#), Renesas Electronics' TP65H030G4PRS, TP65H030G4PWS and TP65H030G4PQS 30-m Ω GaN FETs, How2Power Today, July 2025.

[Digital Controller For GaN Totem-Pole PFC Enables 2-MHz Switching](#), Wise Integration's WiseWare 1.1 (WIW1101) fully digital controller, How2Power Today, July 2025.

[300-V Rad-Hard GaN FET Supports Higher-Voltage Satellite Power Buses](#), EPC Space's EPC7030MSH GaN FET, How2Power Today, July 2025.

[Chipmaker Adds Rad-Hard GaN Transistors Including JANS-Certified Device](#), Infineon Technologies' IG1NT052N10R, IG1NT052N10G and JANSG2N7697UFHC rad-hard GaN transistors, How2Power Today, June 2025.

[Reference Designs Demonstrate Benefits Of 1700-V \[SiC\] Switcher ICs In 800-V BEVs](#), Power Integrations' RDK-994Q and other reference designs and design example reports, How2Power Today, June 2025.

[40-V GaN Power Transistor And Lower Voltage Parts Target Silicon Strongholds](#), EPC's EPC2366 GaN FET, How2Power Today, May 2025.

[Company Adds SiC JFETs For Solid-State Power Distribution](#), Infineon Technologies' 750-V and 1200-V CoolSiC JFETs, How2Power Today, May 2025.

[SiC Schottky Diodes Deliver Low FOM](#), Diodes' 4-A DSC04A065LP, 6-A DSC06A065LP, 8-A DSC08A065LP, 10-A DSC10A065LP, and 12-A DSC12A065LP 650-V Schottkys, How2Power Today, May 2025.

[IToF Laser Driving Demo Board Uses Automotive-Qualified GaN FETs](#), Efficient Power Conversion's EPC91116 high-speed laser driver evaluation board, How2Power Today, May 2025.

[1200-V SiC MOSFET Six-Pack Modules Enable Compact Systems](#), SemiQ's GCMX020A120B2T1P, GCMX040A120B2T1P and GCMX080A120B2T1P SiC MOSFET modules, How2Power Today, May 2025.

[Gate Driver Enables Scalable EV-Powertrain Designs](#), STMicroelectronics' STGAP4S galvanically isolated automotive gate driver for SiC MOSFETs and IGBTs, How2Power Today, May 2025.

[GaN Power Modules Ease Development Of High-Power Applications](#), Infineon Technologies' EasyPACK CoolGaN transistor 650-V module, How2Power Today, May 2025.

[SiC MOSFETs Increase Short-Circuit Robustness](#), NoMIS Power has extended the short circuit withstand time of its next-gen SiC MOSFETs to a minimum of 5 μ s, How2Power Today, April 2025.

[100-V GaN FET Features 1.2-m \$\Omega\$ In 3.3-mm \$\times\$ 3.3-mm QFN](#), EPC's EPC2367 GaN FET How2Power Today, April 2025.



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[Hot-Swap eFuse And GaN Power Stages Support Data Center Applications](#), Texas Instruments' TPS1685 eFuse and a family of 650-V GaN power stages consisting of the LMG3650R035, LMG3650R025 and LMG3650R070, How2Power Today, April 2025.

[Third-Generation 1200-V SiC MOSFETs Cut Size While Improving Performance](#), SemiQ's QSiC MOSFETs including the 16-m Ω GP3T016A120X and GP3T016A120H; 20-m Ω GP3T020A120X and GP3T020A120H, 40-m Ω GP3T040A120X and GP3T040A120H; and 80-m Ω GP3T080A120X and GP3T040A120H, How2Power Today, April 2025.

[GaN Reliability Report Advances Device Reliability And Lifetime Projections](#), EPC's Phase 17 Reliability Report, How2Power Today, April 2025.

[SiC-Based IPMs Enable High Efficiency, Small Size For Motor Drives](#), onsemi's EliteSiC SPM 31 IPMs, How2Power Today, April 2025.

[APEC 2025: Industry Crafts Vertical Power Delivery Solutions For AI Processors](#), APEC report mentions Efficient Power Conversion's EPC9159 48-V to 12-V LLC-based bus converter reference design, EPC's 5-kW OCP-style, ac-dc server power supply, EPC's motor drive reference design for robot joints using EPC23104 power stages, Infineon's 1200-V CoolSiC MOSFET product line in Q-DPAK packages, Nexperia's NSF030120T2A0, NSF040120T2A1, and NSF060120T2A0 1200-V SiC MOSFETs in the top-side cooled X.PAK, Infineon's first SiC JFETs, Nexperia's 12 new devices in its e-mode GaN FET portfolio, How2Power.com, April 2025

[GaN Transistors Come In Silicon-Footprint Packages](#), Infineon Technologies' IGD015S10S1 and IGE033S08S1 CoolGaN G3 transistors, How2Power Today, March 2025.

[200-V GaN FET Driver Is Space Grade](#), Texas Instruments' TPS7H6003-SP, TPS7H6013-SP, TPS7H6023-SP and TPS7H6005-SEP and other gate drivers, How2Power Today, March 2025.

[650-V GaN HEMT Comes In a Compact TOLL Package](#), ROHM Semiconductor's GNP2070TD-Z 70-m Ω GaN HEMT, How2Power Today, March 2025.

[Evaluation Board Offers High-Efficiency 3-kW Totem-Pole PFC](#), Cambridge GaN Devices' CGD-ASY-EVB030FA-01 TP-PFC eval board, How2Power Today, February 2025.

[Solar Optimizer Reference Design Demonstrates Efficiency Of GaN FETs](#), EPC's EPC9178 reference design for PV optimizers, How2Power Today, January 2025.

[SiC Process Platform Streamlines Custom Power MOSFET Development](#), X-FAB Silicon Foundries' XSICM03 next-generation XbloX platform, How2Power Today, January 2025.

[Wide-Creepage Switcher IC Meets IEC60664-1 For 800-V EVs](#), Power Integrations' wide-creepage package option for its InnoSwitch3-AQ flyback switcher IC, which incorporates a SiC power switch, How2Power Today, January 2025.

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[Multi-Output Switcher IC Pushes GaN To 1700 V](#), Power Integrations' IMX2353F InnoMux-2 power supply IC, How2Power Today, December 2024.

[2000-V SiC Schottky Diodes Raise Efficiency For DC Link Systems](#), Infineon Technologies' CoolSiC Schottky diode 2000-V G5 family, How2Power Today, November 2024.

[BMS Design Demonstrates Benefits Of Bidirectional GaN Transistor](#), Innoscience Technology's 48-V, 180-A BMS demo, How2Power Today, November 2024.

[GaN Power ICs Drive Ease-Of-Use, Lower System Cost And Energy Savings](#), Navitas Semiconductor's GaNSlim ICs, How2Power Today, November 2024.

[1200-V SiC MOSFETs Promise Greater Ruggedness And Reliability](#), NoMIS Power's N3T080MP120D and N3T035MP120D SiC MOSFETs, How2Power Today, October 2024.

[SiC Power MOSFET Technology Is Tailored For EV Traction Inverters](#), STMicroelectronics' fourth-generation STPOWER silicon carbide MOSFET technology, How2Power Today, October 2024.

[650-V GaN Switches And Half-Bridges Feature Integrated Drivers](#), Infineon Technologies' CoolGaN Drive product family, How2Power Today, September 2024.

[Reference Designs Speed SiC-Based Traction Inverter Development](#), CISSOID's EVK-PLA1060 on-board inverter reference designs, How2Power Today, September 2024.

[Hybrid Si/SiC Power Modules Boost Power Density For Solar Power Generation And Energy Storage](#), Onsemi's newest generation silicon and silicon carbide hybrid power integrated modules (PIMs) in F5BP packages, How2Power Today, September 2024.

[GaN IPM Enables Smaller, More Efficient High-Voltage Motors](#), Texas Instruments' DRV7308 GaN IPM, How2Power Today, August 2024.

[High-Density Power Supply Reference Design Delivers 4.5 kW For AI Data Centers](#), Navitas Semiconductor's 4.5-kW AI data center power supply reference design optimized with GaNSafe and Gen-3 "Fast" SiC power components, How2Power Today, August 2024.

[GaN Power IC Packages Deliver Enhanced Thermal Performance](#), Cambridge GaN Devices' BHDFN-9-1 and DHDFN-9-1 packages, How2Power Today, July 2024.

[50-V GaN FET Enables High Power Density In USB-C PD Applications](#), EPC's 50-V, 8.5-mΩ EPC2057 GaN FET, How2Power Today, July 2024.

[650-V SiC Diodes Address Automotive And Wider Range Of Industrial Applications](#), Nexperia's 650-V, 10-A SiC Schottky diodes are automotive qualified (PSC1065H-Q) and available in real-two-pin DPAK packaging, How2Power Today, July 2024.

[Silicon And SiC MOSFETs Support High Efficiency In Data Centers](#), onsemi's latest generation T10 PowerTrench family and EliteSiC 650-V MOSFETs, How2Power Today, July 2024.



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[1200-V SiC Schottky Diodes Increase Efficiency And Reliability](#), Vishay Intertechnology's 16 Gen 3 1200-V SiC Schottky diodes featuring a merged PIN Schottky design, How2Power Today, July 2024.

[400-V SiC MOSFETs Benefit AI Server Power Supplies](#), Infineon's 400-V CoolSiC MOSFETs, How2Power Today, June 2024.

[SiC JFET Brings Efficiency, Small Size And Robustness To Circuit Breakers](#), Qorvo's UJ4N075004L8S SiC JFET, How2Power Today, June 2024.

[App Note Describes Multiphase Interleaving Of Rad-Hard Power Modules](#), EPC Space's AN005 application note on interleaving the GaN-based FBS-GAM02 and GAM02-PSE modules for POL applications, How2Power Today, June 2024.

[Known-Good-Die Screening For SiC MOSFETs](#), SemiQ's known-good-die (KGD) screening process and additions to QSiC family of MOSFET half-bridge modules, How2Power Today, June 2024.

[GaN Power Stage IC Is Rad Hard](#), EPC Space's EPC7011L7SH GaN power stage, How2Power Today, May 2024.

[IC Drives Low-, Medium- And High-Voltage E-mode GaN HEMTs](#), Innoscience Technology's INS1001DE driver IC, How2Power Today, May 2024.

[GaN Power Devices Enable Configurable, 1600-W DC-DC Solution For Space](#), VPT's SGRBX dc-dc converter box, How2Power Today, April 2024.

[2000-V SiC MOSFETs Support Higher DC Link Voltages](#), Infineon Technologies' 2000-V CoolSiC MOSFETs, How2Power Today, April 2024.

[GaN Reliability Report Adds Overvoltage Guidelines, Information On Thermomechanical Wearout](#), EPC's Phase-16 Reliability Report, How2Power Today, April 2024.

[750-V SiC MOSFETs Enhance Performance Of Industrial And Automotive Applications](#), Infineon Technologies' 750-V G1 discrete CoolSiC MOSFETs, How2Power Today, April 2024.

[APEC 2024 Highlights WBG Progress, Power Challenges In AI And Beyond](#), Article reports on Qorvo's 1200-V SiC Modules, Microchip Technology's 3.3-kV XIFM mSiC gate driver, Cambridge GaN Devices' ICeGaN reference designs and demos, Texas Instruments' LMG2100R044 and LMG3100R017 100-V GaN power stages, Analog Devices' LT8418 100-V half-bridge GaN driver, and other GaN and SiC news, How2Power Today, March 2024.

[GaN FET Features 1-mΩ On-Resistance](#), EPC's EPC2361GaN FET, How2Power Today, March 2024.

[Switcher ICs Improve Efficiency For Multi-Output Power Supplies](#), Power Integrations' InnoMux-2 power-supply ICs featuring 750-V PowiGaN switches, How2Power Today, March 2024.

[SiC MOSFET Modules In Full-Bridge Configurations Delivery High Efficiency And Reliability](#), SemiQ's QSiC 1200-V SiC MOSFET modules, How2Power Today, March 2024.



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[Offline Switcher ICs Enable Design Of Highly Efficient, Compact USB PD Adapters](#), Power Integrations' InnoSwitch5-Pro switcher ICs featuring 750-V or 900-V PowiGaN switches, How2Power Today, February 2024.

[Fast-Switching GaN FETs Enable 75- To 231-A Laser Diode Control For Automotive LiDAR](#), EPC's EPC9179, EPC9181, and EPC9180 evaluation boards featuring pulse-current laser drivers, How2Power Today, February 2024.

[100-V Bidirectional GaN IC For 48-V And 60-V Battery Management Systems](#), Innoscience Technology's INV100FQ030A member of the company's VGaN IC family, How2Power Today, February 2024.

[1200-V SiC MOSFETs Target Industrial Applications](#), Nexperia's NSF040120L3A0 and NSF080120L3A0 SiC MOSFETs, How2Power Today, February 2024.

[SPICE Library Adds SiC Power Devices And IGBTs](#), ROHM Semiconductor's expanded SPICE model lineup, How2Power Today, January 2024.

[SiC MOSFET Half-Bridge Modules Are Engineered For Reliability](#), SemiQ's GCMX010A120B2B1P and other SiC MOSFET modules, How2Power Today, January 2024.

[SiC MOSFET Half-Bridge Module Is Hermetically Sealed](#), Solitron Devices' SD11487 SiC power module, How2Power Today, January 2024.

[Low-Voltage HEMTs Come In Easy-To-Use Flip-Chip QFNs](#), Innoscience Technology's INN040FQ043A, INN100FQ016A, INN100FQ025A, INN150FQ032A, and INN150FQ070A GaN HEMTs, How2Power Today, January 2024.

[GaN FETs With Integrated Gate Drivers Shrink AC-DC Adapters](#), Texas Instruments' LMG3622, LMG3624 and LMG3626 GaN FETs, How2Power Today, January 2024.

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[62-mm Package For SiC MOSFETs Enables Higher Efficiency And Power Density](#), Infineon Technologies' CoolSiC MOSFET modules, How2Power Today, December 2023.

[650-V GaN Power Switch Integrates Lossless Current Sensing](#), GaNPower International's GPI65060DFC power switch, How2Power Today, December 2023.

[1200-V SOT-227 SiC MOSFET Modules Are Designed For High Reliability](#), SemiQ's QSiC silicon carbide modules, How2Power Today, December 2023.

[Semiconductor Technology Pushes Silicon Beyond Its Assumed Limits For Power Devices](#), iDEAL Semiconductor's SuperQ technology, *Technology enables silicon power switches to compete with SiC and GaN*, How2Power Today, November 2023.



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[Switcher ICs Feature 1250-V GaN Switch](#), Power Integrations' InnoSwitch3-EP 1250-V ICs, , How2Power Today, November 2023.

[GaN-Based Reference Design Shrinks Motor Drives For eBikes](#), Robots And Drones, EPC's EPC9194 motor drive inverter reference design, How2Power Today, November 2023.

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[40-V Rad-Hard GaN FETs Deliver High Performance For LEO And GEO Applications](#), EPC's EPC7001 and EPC7002 rad-hard GaN FETs, How2Power Today, August 2023.

[GaN Driver Integrates Galvanic Isolation For Power Rails Up To 1700 V](#), STMicroelectronics' STGAP2GS gate driver, How2Power Today, July 2023.

[SiC Trench MOSFETs In TQ263-7 Boost E-Mobility](#), Infineon's 1200-V CoolSiC MOSFETs, How2Power Today, July 2023.

[SiC Schottky Diodes Offer 650-V To 1200-V And 6-A To 10-A Ratings](#), Bourns' BSDH10G65E2, BSDH10G120E2, BSDD06G65E2, BSDL10S65E6, BSDW20S65C6, BSDW20G120C2SiC Schottky barrier diodes, How2Power Today, July 2023.

[700-V SiC MOSFET Is Military Grade](#), Solitron Devices' SD11710 SiC MOSFET in a hermetically sealed TO-258, How2Power Today, July 2023.

[SiC Gate Driver Improves Efficiency, Simplifies Design For EV Traction Inverters](#), Texas Instruments' UCC5880-Q1 isolated gate driver, How2Power Today, June 2023.

[GaN ICs Are Robust And Easy To Use](#), Cambridge GaN Devices' H2 series ICeGaN HEMTs, How2Power Today, June 2023.

[GaN Transistors Expand 100-V And 200-V Rad Hard Options](#), EPC's EPC7020 200-V, 11-m Ω GaN FET and EPC7003 100-V, 30-m Ω GaN FET, How2Power Today, June 2023.

[SiC E-Fuse Demonstrator Eases Design Of Solid-State Power Protection](#), Microchip Technology's SiC-based E-fuse demonstrator board, How2Power Today, June 2023.

[E-Mode GAN FETs Address Low- And High-Voltage Applications](#), Nexperia's GAN080-650EBE, GAN140-650EBE, GAN140-650FBE, GAN190-650EBE, and GAN190-650FBE 650-V, GaN FETs in DFNs; GAN3R2-100CBE 100-V GaN FET in a WLCSP; and GAN7R0-150LBE 150-V GaN FET in an LGA, How2Power Today, June 2023.

[1200-V SiC Power Modules Provide Independent Outputs And Small Size](#), Solitron Devices' SD11911 and SD11912 1200-V SiC power modules, How2Power Today, June 2023.

[GaN FETs Plus Controller Build High-Density Buck Converter Reference Design](#), EPC's EPC9158 synchronous buck reference design board, How2Power Today, May 2023.



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[Merged PiN Schottky Structure Enhances Robustness Of 650-V SiC Diodes](#), Nexperia's PSC1065K 10-A, 650-V SiC Schottky diode, How2Power Today, May 2023.

[900-V Switcher ICs Benefit EV And Industrial Applications](#), Power Integrations' 900-V InnoSwitch3 flyback switcher ICs, How2Power Today, April 2023.

[SiC FET In TOLL Package Offers Higher Voltage Rating](#), Lower On-Resistance, Qorvo's UJ4SC075005L8S SiC FET, How2Power Today, April 2023.

[Simulation Tools For SiC Devices Improve Accuracy For Soft Switching](#), onsemi's online Elite Power Simulator and Self-Service PLECS Model Generator, How2Power Today, April 2023.

[Reliability Report Projects GaN Device Lifetime In Real-World Applications](#), EPC's Phase-15 Reliability Report, How2Power Today, April 2023.

[Simulator Eases Evaluation Of SiC Power Solutions](#), Microchip Technology's MPLAB SiC Power Simulator, How2Power Today, April 2023.

[Integrated 100-V GaN Half-Bridge With Driver Saves Board Space](#), Innoscience Technology's ISG3201 SolidGaN half-bridge, How2Power Today, April 2023.

[High-Performance Vertical GaN Semiconductors Will Begin Production In Q3](#), NexGen Power Systems' 700-V and 1200-V NexGen Vertical GaN semiconductor devices, How2Power Today, March 2023 issue.

[900-V GaN Power ICs Feature Low On-Resistance And Low Leakage](#), GaNPower International's GPI4TIC15DFV and GPI6TIC15DFV GaN ICs, How2Power Today, January 2023 issue.

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[PFC And Hybrid-Flyback IC Drives Performance In GaN-Based USB-C Adapters](#), Infineon Technologies' XDPS2221 controller IC for USB-PD, How2Power Today, December 2022 issue.

[Easy-To-Use GaN HEMTs Are Available In High Volume](#), Cambridge GaN Devices' IceGaN smart HEMT, monolithically integrated power solutions, How2Power Today, December 2022 issue.

[Next-Generation GaN Technology Doubles Power Density](#), Efficient Power Conversion's EPC2619 80-V 4-m Ω GaN FET, How2Power Today, November 2022 issue.

[1-kV Voltage Sensor Measures VDS Of SiC And GaN Transistors](#), Tell-i Technologies' VON1k5Vm sensor, How2Power Today, November 2022 issue.

[GaN HEMT Family Adds 190-m \$\Omega\$, 350-m \$\Omega\$ And 600-m \$\Omega\$ Devices In DFN Packages](#), Innoscience Technology's INN650D190A, INN650DA190A, INN650D350A, INN650DA350A and INN650DA600A 650-V GaN HEMT devices, How2Power Today, November 2022 issue.



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[GaN Half-Bridge Power ICs Enable Megahertz Switching](#), Navitas Semiconductor's NV6247 and NV6245C GaNSense half-bridge ICs, How2Power Today, October 2022 issue.

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