

## Power Products Article Archive

Articles published in the January through December 2015 issues

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### January 2015:

**15-W Qi-compliant Wireless Charging Solution Charges Larger Devices Faster**, Freescale Semiconductor's WPR1516 and MWCT1012 wireless charging chips [For more details...](#)

**4-mm x 5-mm Power Block Provides Another Option For Shrinking DC-DC Designs**, International Rectifier's IRFH4257D dual power MOSFET [For more details...](#)

**Intelligent Power Modules Are Optimized For Embedded Motor Drives And Inverters**, Rohm Semiconductor's family of IPMs [For more details...](#)

### February 2015:

**Scope-Like Interface Allows Power Analyzer Users To See Waveforms And Troubleshoot**, Keysight Technologies' IntegraVision power analyzers [For more details...](#)

**Digital Controllers Support VR12/12.5 And PMBus**, Powervation's PV3103, PV3104, and PV3202 digital dc-dc controllers. [For more details...](#)

**1200-V SiC MOSFET Features <290-mΩ On-Resistance To 200°C**, STMicroelectronics' SCT20N120 SiC MOSFET [For more details...](#)

### March 2015:

**GaN FETs + Driver Module Lowers Barriers To GaN-Based Power Design**, Texas Instruments' LMG5200 integrated half-bridge GaN FET power-stage [For more details...](#)

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**Supercapacitors Offer High-Efficiency Energy Storage For Kilowatt- And Megawatt-Scale Systems**, Eaton's PowerStor XL60 series supercapacitors  
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**High-Rel DC-DC Converter Features Epoxy Encapsulation, Greater Power Density**, VPT's VPT250-2800S series dc-dc converters  
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**200-mA Linear Regulator Pushes Operating Temperature To 175°C**, CISSOID's CMT-ANTARES 5-V linear regulator  
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**SiC MOSFETs Miniaturize Ultra-High Voltage Pulse Generators**, ROHM's SCT2080KE SiC MOSFET  
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**Graphical Sampling Multimeter Lets Users See Ripple And Other Waveforms**, Keithley Instruments' DMM7510 7½-digit graphical sampling multimeter  
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### April 2015:

#### **Top Five Products And Demos Seen at APEC 2015**

- *Efficient Power Conversion's EPC9115 500-W Eighth-Brick Demonstration Design*
- *Cree's SiC-Module-Based 50-kW String PV Inverter*
- *Altera's Enpirion EM1130A 30-A Point-Of-Load Converter*
- *Intersil's ISL8272M 50-A Point-Of-Load Converter*
- *Fairchild's New Extended Temperature Mid-Voltage MOSFETs Rated at 175° C*  
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### May 2015:

**GaN Transistors Are Cheaper Than Silicon**, Efficient Power Conversion's EPC2035 and EPC2036 eGaN power transistors  
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**Power Op Amp Improves Circuit Protection, Lowers Quiescent Current For Piezo Transducers**, Apex Microtechnology's MP118FD power operational amplifier  
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**COTS DC-DC Converters And EMI Filters Feature Wide Input Range And Advanced Packaging**, VPT's VXR series of dc-dc converters and EMI filters  
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**DSCs Offer Lower Latency, Live Update And More For Digital Power Supply Designs**, Microchip Technology's dsPIC33EP "GS" family of digital signal controllers  
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### June 2015:

**High-Density Power Modules Reshape AC-DC Power Supplies, Vicor's VIA PFM ac-dc front-end power modules**  
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**Controllers Simplify Digital Power Conversion And Enhance Performance**, STMicroelectronics' STNRG digital-controller family  
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**9.5-kV Light-Triggered Thyristor Integrates Forward Recovery Protection**, Infineon Technologies Bipolar's Light-triggered thyristor  
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**IC Speeds Charging Of Li-ion Batteries**, Texas Instruments' bq2589x single-cell Li-on charger  
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**Bus Converter Steps Down 380 V to 48 V With High Power Density And Low Profile**, Vicor's VIA BCM bus converter module  
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**Enhancement-mode GaN transistor Boasts 60-A Rating**, GaN Systems' GS65516T 60-A 650-V GaN transistor  
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**IP66-rated Inverter Delivers 1000 VA Of Sine Wave Output**, Absopulse Electronics' CSI 1K-24/230-3XD3 microprocessor-controlled high-frequency PWM inverter  
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### July 2015:

**New Type Of Power Module Offers Greater Integration, Path To Cost Reduction,** Maxim Integrated's Himalaya power modules

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**900-V SiC MOSFET Outperforms Superjunction Silicon MOSFETs,** Cree's C3M0065090J SiC MOSFET

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**Hermetically Sealed Linear Regulators Offer Dramatically Lower Cost And A Range Of Grades,** Datel's LVR-7815 linear voltage regulators

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**700-V Gate Driver ICs Increase System Reliability And Shrink Board Space,** Infineon Technologies' IR7xxxS series of 700-V HVICs

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**High-Voltage Differential Probes Boast Wide Voltage Range, Address PV Inverter Needs,** Teledyne LeCroy's HVD3206 and HVD3605 high-voltage differential probes

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**Plug-in DC modules Are Optimized For Reactive Loads,** Excelsys Technologies' Reactive Load powerMod series of plug-in dc output modules

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**IGBT Modules Are Configurable For A Wide Range Of Applications,** Powerex Integrated Power Modules (PIPMs)

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### August 2015:

**185°C Rated DC-DC Converters Deliver Small Size For Downhole Tools,** IR HiRel's HTB28 hermetic dc-dc converters

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**Advanced Tools For Expert Power-Supply Designers,** Texas Instruments' WEBENCH Power Designer

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**Integrated Power Switch Features Reverse-Current Blocking,** Silego Technology's SLG59M1603V integrated power switch

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**Controller IC Eases Application Of SiC MOSFETs In AC-DC Power Supplies,**  
*Rohm's BD7682FJ-LB ac-dc converter control IC*

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**Fast-Acting Fuses Enhance Safety In Mining, Oil Drilling And Other Industrial Applications,**  
*Eaton's C308F Bussmann series of fast-acting, ceramic tube fuses*

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### September 2015:

**Reference Kits Ease Implementation Of Wireless Charging,**  
*Integrated Device Technology's P9038-R-EVK and P-9025AC-R-EVK wireless power reference kits*

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**Power MOSFETs Feature Low Turn-Off Losses,**  
*STMicroelectronics' MDMesh M2 EP power MOSFETs*

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**3-kW Power Supply Is Ruggedized For Severe Industrial Environments,**  
*Absopulse Electronics' HVI 3KP-V9 industrial power supply*

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**IC Extends Life Of Multi-Cell Li-ion Batteries,**  
*Intersil's ISL94203 Li-ion battery monitor*

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### October 2015:

**Digital Power Module Delivers 80 A For FPGAs, Processors And Memory,**  
*Intersil's ISL8273M digital PMBus stepdown power module*

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**Software Enables VNAs To Characterize Wireless Power Devices,**  
*Keysight Technologies' wireless power transfer analysis option 006*

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**Gate Driver Shrinks Delay And Board Space For Server Power Supplies,**  
*Texas Instruments' UCC27714 high-speed, low-side gate driver*

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**Charger Interface IC Eases Implementation Of Quick Charge 3.0 Protocol,**  
*Power Integrations' CHY103D charger-interface IC*

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**Multi-Frequency Harmonic Comb Injector Eases EMI And Power Integrity Testing**, Picotest's J2150A USB harmonic comb injector

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**Encapsulated Railway DC-DC Converters Offer RIA12 Surge Withstand Capacity**, ABSOPULSE Electronics' RWR 155 series of dc-dc converters

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**1U 720-W Power Supplies Are Now Certified To UL And CE Safety Standards**, Acopian's 1U switching regulated 720-W ac-dc power supply family

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### November 2015:

**Super-Junction Power MOSFETs Move Up To 1500 V**, STMicroelectronics' MDmesh K5 superjunction MOSFETs

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**High-Density DC-DC Converters Come In Rugged Chassis-Mount Package**, Vicor's VIA DCMs

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**Medical-Grade 60-W AC-DC Adapter Offers Ultra-Thin Profile**, Energy Power's BM60 series of BladeAdapter ac-dc supplies

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**Harmonics Calculation Software Expands Capabilities Of Motor Drive Analyzers**, Teledyne LeCroy's Harmonics Calculation option

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**Liquid Cooled 20- to 25-kW Power Systems Target Heavy Industrial And Military Projects**, Schaefer's CPW-5700 series of ac-dc supplies and BPW-5700 series of battery chargers

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**Bus Converter Modules Are Non-Isolated And Bidirectional**, Vicor's non-isolated, bidirectional bus converter modules (NBMs)

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**Wireless Charging Antennas Deliver High Q, Low Heat, Extreme Thinness For Smartphones**, NuCurrent's NC21-R76M13E-87670R30 multimode wireless charging antenna assemblies

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***PWM Controllers Feature 40-V Operation And PMBus Interface***, Microchip Technology's MCP19118 and MCP19119 digitally enhanced power analog controllers  
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***Wireless Charging Solution Is Adopted By Tier I Computer Makers***, Semtech's TS80K wireless charging platform  
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### December 2015:

***Supercapacitor Module Provides Longer-Life Alternative To Batteries***, Eaton's XLM supercapacitor energy storage module  
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***High-Temp SiC Power Modules Offer Different Configurations***, Current Ratings, CISSOID's CHT-PLUTO and CHT-EUROPA SiC power modules  
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***Smart Diode Controller Delivers Reverse Polarity Protection With No  $I_Q$*** , Texas Instruments' LM74610-Q1 smart diode controller  
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***Medium-Power Wireless Transmitter Reference Design Is Certified To Qi V 1.2***, Rohm's wireless power reference design  
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***15-W Wireless Power Receiver IC Complies With Qi V1.2***, Toshiba America Electronic Components' TC7766WBG wireless power receiver  
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