

New CAPZero-3 X-Capacitor Discharge ICs from Power Integrations Meet IEC60335

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New device family reduces standby power for appliance applications

SAN JOSE, Calif.--(BUSINESS WIRE)-- Power Integrations (Nasdaq: **POWI**), the leader in high-voltage integrated circuits for energy-efficient power conversion, today announced **CAPZero™-3**, the latest generation of the company's elegant, energy-saving X-capacitor discharge ICs. Two-terminal CAPZero-3 ICs enable designers to easily meet IEC60335 safety approvals for major appliances, and cover all capacitor values from 100 nF to 6 µF.

This press release features multimedia. View the full release here:

<https://www.businesswire.com/news/home/20190820005735/en/>

New CAPZero-3 X-Capacitor Discharge ICs from Power Integrations Meet IEC60335 (Photo: Business Wire)

IEC60335 is the discharge safety standard for all appliances. To protect the user from an

electrical hazard, it requires the voltage across the input X capacitor to discharge to less than 34 V within less than one second after the AC is removed. **CAPZero-3** ICs block current flow through the X-capacitor discharge resistors when the AC voltage is connected, and automatically discharge X capacitors through those resistors when the AC is disconnected. CAPZero-3 ICs simplify EMI filter designs while permitting the use of larger X capacitors, which in turn enables smaller inductive components to be used with no resulting change in power consumption.

CAPZero-3 ICs can be placed before or after a system's input fuse. Devices deliver high common-mode surge immunity so that no external ground connection is necessary, and feature a high differential surge withstand due to 1000 V internal MOSFETs. Creepage on the package and PCB is maintained at >4 mm.

Comments Edward Ong, product manager, Power Integrations: "With the launch of the new CAPZero-3 ICs, designers can use one part to address a large range of applications in small and major appliances that require X capacitor values from 100 nF to 6 μ F."

CAPZero-3 devices are safety-certified to CB and Nemko requirements and so developers do not need to perform a separate safety test on the X-capacitor discharge circuit of the power supply. Devices are available now, priced at \$0.31 in 1,000 piece quantities. Technical support is available from the Power Integrations website at: www.power.com/products/capzero-3.

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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Media Contact

Peter Rogerson
Power Integrations, Inc.
(408) 414-8573
peter.rogerson@power.com

Press Agency Contact

Nick Foot
BWW Communications
+44-1491-636 393
nick.foot@bwwcomms.com

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