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converters can operate the stator of synchronous or asynchronous machines. In other applications, the power converter can be connected to the rotor of a wound rotor induction machine. In the first case, the converter handles the overall power of the machine and it operates in a wide speed range.



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Modern power electronic converters are involved in a very broad spectrum of applications like switched-mode power supplies, active power filters, electrical-machine-motion-control, renewable energy conversion systems distributed power



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generation, flexible AC transmission systems, and vehicular technology, etc.

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GaN Systems and BrightLoop Converters, a French power electronics company, have announced their strategic partnership to develop the latest AC/DC and DC/DC Converter products for

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Leveraging GaN Systems' 650V GaN transistors, BrightLoop produces a range of converters that are smaller, lighter, and more efficient than currently available in the ...

## **Bringing power electronics to the road track and skies**

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Power electronics converters are widely used in myriad power conversion applications from fraction of volt and power to tens of thousands of volts and power levels.

Sometimes it involves multistage power

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Power electronics is the application of solid-state electronics to the control and conversion of electric power. The first high power electronic devices were mercury-arc valves. In modern systems, the conversion is performed with semiconductor switching devices such as diodes, thyristors, and power transistors such as the power

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MOSFET and IGBT. In contrast to electronic systems concerned with transmission and processing of signals and data, in power electronics substantial amounts of electrical

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