

Artesyn Embedded Technologies Launches Two New Wide-Range Input DC-DC Converters For Power Amplifier Applications

New AVO100 and AVO250 fully-regulated eighth-brick converters offer output rated to power levels up to 100 W and 250 W

Tempe, Ariz. [2 October, 2014] — Artesyn Embedded Technologies has announced the launch of two new families of fully-regulated 1/8th brick dc-dc converters specifically designed to supply high density low power radio power amplifier applications, especially small-cell systems.

The [AVO100](#) and [AVO250](#) series converters offer power output up to 100 W and up to 250 W respectively, with an extremely wide output voltage range - specified between 18 and 32.5 V - to cover the demands of power amplifier applications. The units accept the telecommunication standard wide input range of 36 to 75 Vdc. These units broaden Artesyn's portfolio of units aimed specifically at radio frequency (RF) power amplifier applications, with specific focus on the lower power requirements of small-cell systems, which includes the recently announced [AVD85](#), [AVE family](#) and [AGF800](#).

Above 93 percent ultra-high efficiency and excellent thermal performance in an operating range of minus 40 to 85 degrees Celsius make them an ideal choice to supply power in wireless communications where the highest efficiency is demanded by telecom equipment manufacturers and network operators. The AVO250 delivers up to 9 A output current, while the AVO100 provides up to 3.57 A output.

A range of special features makes Artesyn's new AVO100 and AVO250 series converters easy to design and deploy, including wide input range, optimization for conduction cooling, low ripple and noise, fixed switching frequency, high capacitive load capability, pre-bias start-up capability, output voltage remote sense. All variants are fitted with through hole terminations.

The two new converters are protected against overcurrent, over-temperature and over-voltage conditions. They also have an enable pin on the primary side of the converter and remote-sense features and output voltage adjust function on the secondary side. The units are either of an open frame or baseplate design in the industry-standard eighth-brick outline and pin configuration, which measures 57.9 × 22.9 × 10.0 mm (2.28 × 0.9 × 0.394 inches), allowing for optimized conduction or forced airflow cooling.

Note to editors

High resolution pictures of the new Artesyn [AVO100](#) and [AVO250](#) series dc-dc converters are available to download directly from the product web pages.

About Artesyn Embedded Technologies

Artesyn Embedded Technologies, formerly Emerson Network Power's Embedded Computing & Power business, is a global leader in the design and manufacture of highly reliable power conversion and embedded computing solutions for a wide range of industries including communications, computing, medical, military, aerospace and industrial. For more than 40 years, customers have trusted Artesyn to help them accelerate time-to-market and reduce risk with cost-effective advanced network computing and power conversion solutions. Artesyn has over 20,000 employees worldwide across nine engineering centers of excellence, four world-class manufacturing facilities, and global sales and support offices.

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