



## Advanced Energy Introduces Innovative Convection Cooled Fanless Power Supplies With High Output Power in a Compact Package

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### New CS1000 fanless power supply series eliminates acoustic noise and vibration for medical, clinical, scientific and industrial applications

FORT COLLINS, Colo.--(BUSINESS WIRE)--Sep. 22, 2020-- [Advanced Energy Industries, Inc.](https://www.businesswire.com/news/home/20200922005164/en/) (Nasdaq: AEIS) – a global leader in highly engineered, precision power conversion, measurement and control solutions – today announced the availability of its Excelsys CS1000 fanless power supply series. Delivering up to 1000W with no fans, this convection cooled family of highly efficient power supplies eliminates acoustic noise, vibration and the need for baseplate cooling, making them lightweight and ideal for use in a wide range of medical treatment applications, as well as vibration-sensitive clinical, diagnostic and industrial applications.

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“The new CS1000 power supply series builds on our innovation and global leadership in highly engineered specialty power conversion for the medical and industrial markets,” said Conor Duffy, vice president and general manager, medical at Advanced Energy. “A typical fanless power supply requires a baseplate for cooling, which comes with added weight and reduced design flexibility. The CS1000 is one of the only fanless power supplies available at such high output power without a baseplate. Providing 1000W of fanless power in a compact 1U package with industry-leading performance and control allows our customers to deliver more innovation in their products.”

As the newest addition to the Excelsys low voltage power product line, the CS1000 series leads the market with conversion efficiencies of up to 94 percent, as well as a 24W bias supply voltage of 5V or 12V. The power supplies are available with 24-volt or 48-volt single outputs and operate off universal AC input voltage of 90 to

Advanced Energy's new CS1000 is an innovative convection cooled fanless power supply series that eliminates acoustic noise and vibration for medical, clinical, scientific and industrial applications. (Photo: Business Wire)

264VAC. The CS1000 series offers system designers a variety of features for increased performance, efficiency and reliability for mission-critical applications, including:

- Medical: Clinical diagnostic equipment, medical lasers, dialysis equipment, radiological imaging, clinical chemistry
- Industrial: Test and measurement, industrial machines, automation equipment, printing, telecommunications, audio equipment
- High Reliability: Harsh industrial electronics, radar (naval- and ground-based), communications, test and measurement

The series provides intelligent analog and digital control and monitoring with Power Management Bus (PMBus), an open-standard digital power management capability. Control and monitoring features include AC Fail, global remote/off, output voltage/current control as well as a large suite of protection features, such as over-voltage, over-current, short circuit and over-temperature.

The CS1000 is available in M and S versions, each with 24-volt or 48-volt output options. The CS1000M is certified for IEC60601-1 3<sup>rd</sup> edition and IEC60601-1-2 4<sup>th</sup> edition (EMC) for medical applications, and provides 2 x MOPP, 4kVAC primary to secondary isolation as well as <300uA leakage current. The CS1000S carries IEC60950 safety approvals and is also certified for the upcoming IEC62368-1 safety standard for industrial applications.

### About Advanced Energy

Advanced Energy (Nasdaq: AEIS) is a global leader in the design and manufacturing of highly engineered, precision power conversion, measurement and control solutions for mission-critical applications and processes. AE's power solutions enable customer innovation in complex applications for a wide range of industries including semiconductor equipment, industrial, manufacturing, telecommunications, data center computing and healthcare. With engineering know-how and responsive service and support around the globe, the company builds collaborative partnerships to meet technology advances, propel growth for its customers and innovate the future of power. Advanced Energy has devoted more than three decades to perfecting power for its global customers and is headquartered in Denver, Colorado, USA. For more information, visit [www.advancedenergy.com](http://www.advancedenergy.com).

Advanced Energy | Precision. Power. Performance.

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