

Advanced Energy's Artesyn Embedded Power Announces Open Rack Version 3 Power Shelf to Support Open Compute Project and Evolution to 48-Volt Infrastructure

DENVER, Colo. [11 May, 2020] — Advanced Energy (Nasdaq: AEIS) today announced its Artesyn Embedded Power product group is introducing a new [Open Compute Project](#) Open Rack version 3 (OCP ORv3) power shelf, designed to support the move to 48-volt data center infrastructure.

Traditionally, data center racks have used 12-volt power shelves, but higher performance compute and storage platforms demand more power, which results in very high current. Moving from 12-volt to 48-volt power distribution reduces the current draw by a factor of four and reduces conduction losses by a factor of 16. This results in significantly better thermal performance, smaller busbars and increased efficiency.

This new standards-based design has been developed in collaboration with major OCP users and is intended to create a common power platform for multiple customers across deployments, increasing adoption and creating economies of scale to benefit the whole OCP community.

“We are highly engaged in the development of OCP Open Rack standards and specifications, with input from multiple leading hyperscale data center customers,” said Brian Korn, senior director, data center solutions for Advanced Energy's Artesyn Embedded Power product group. “We are enabling the market adoption of this next generation 48-volt power distribution architecture through collaboration across multiple companies to address shared challenges, offering OCP compatible solutions while retaining our differentiating intellectual property.”

The new OCP ORv3 power shelf will be a key technology enabler in the growing adoption of 48-volt rack power distribution in hyperscale data centers. Artesyn products deliver rack power solutions in the \$1.9 billion data center computing embedded power

market, which is fast-growing thanks to the acceleration of data generation and use, growing cloud adoption across enterprise IT, and an increased workload driven by artificial intelligence and machine learning.

The launch of the new ORV3 power shelf is aligned with the [OCP Virtual Summit](#), from May 12 to 15, 2020. The company has been heavily involved in the development of previous Open Rack interoperability specifications and OCP compatible solutions. This is the fourth year the company will be participating in the OCP Global Summit and senior technical marketing director, Harry Soin, will be presenting on the 1OU Shelf Architecture in the session, "[Deep Dive on Open Rack V3 Power Shelves](#)" at 11:00 a.m. on Thursday, May 14.

More Details and Images:

[1OU 18 kW Open Rack Power Shelf](#)

[2OU 36 kW Open Rack Power Shelf](#)

[50 V, 3 kW Open Rack Rectifier](#)

Artesyn Embedded Power by Advanced Energy

Artesyn Embedded Power is an Advanced Energy product brand, and is well recognized as a global leader in the design and manufacture of highly reliable power conversion solutions for a wide range of industries including communications, computing, server storage, healthcare and industrial. Customers trust Artesyn to help them accelerate time-to-market and reduce risk with cost-effective power conversion solutions. For more information, visit www.artesyn.com.

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 server storage 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.

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