Mission Critical Power: Past, Present and Future

Miguel Chavez, Director of Engineering, Eaton

Abstract:

A look at mission critical power and how the evolution of industries requiring uninterrupted electric power and advances in power electronics have helped shape its path. From early computer rooms to today's hyper-scale data centers, the demands for safe and reliable power have grown significantly and are part of a world that expects to be interconnected 24/7. What will the future require? We review the trends, technological and otherwise, that will impact how the challenges of supplying the world with mission critical power are addressed.

Bio:

Miguel Chavez is Director of Engineering for Critical Power Solutions - Power Quality, Eaton, position he holds since 2007. Previously, he was Manager of Global Product Development for three-phase power quality products at Eaton. Chavez joined Eaton through the Powerware acquisition in 2004. Since 1996, he worked in Powerware Corporation three-phase power systems engineering group, where he held individual contributor roles and later assumed management responsibilities for electrical and systems design. Later in 2002, Mr. Chavez served as overall coordinator for an international team that defined and developed the system architecture for what later became a “global platform” for power systems design, adaptable to worldwide electrical infrastructure. He has led several multi-disciplinary engineering teams developing new power protection products for the worldwide market, role he had in 2004, when Powerware became part of Eaton Corporation’s Electrical Group. He holds four U.S. patents. Mr. Chavez holds a MSEE from North Carolina State University, and a BSEE from R. Palma University in Lima, Peru.