Shaping the Data center Ecosystem

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Abstract

Data center evolution has been supported by emerging technologies such as the Lithium-Ion Battery (LIB) technology and advanced thermal management system (TMS). The drive to replace traditional Value Regulated Lead Acid (VRLA) batteries with LIB technology is based on the desire to provide high energy efficiency, environment friendly solutions and new capacity designs. In this paper, the performance of both traditional technologies are compared with their current technologies and also the use of Lithium-Ion Battery (LIB) Technology for Uninterruptible Power Supply (UPS) in data centers is presented, followed by cooling efficiency delivered through advanced TMS using 3-D stack chipset.