

Calculating Space and Power Density Requirements for Data Centers

White Paper 155

155-00000000

By Neil Karmann

Executive summary

The typical method of calculating data center power density using a range number of watts per square foot (or watts per square meter) is an oversimplified practice that has caused needless confusion as well as waste of energy and money. This paper demonstrates how the typical method is incorrect and why power density was flawed, and provides an improved approach for calculating space requirements, including recommended density specifications for typical situations.



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