

Huawei s intelligent micro-module PUE hits a new low



Overview

Using a wide-range fluorine pump for natural cooling, it achieves a PUE as low as 1. Using integrated high-density UPS, multiple cabinets are combined into one, saving 1-2 cabinet spaces in limited space, allowing customers to deploy more IT cabinets. This advanced solution boasts high-density deployment capabilities, flexible scalability, green and low-carbon operations, unparalleled safety and reliability. Huawei FusionModule2000 is a modular data center solution with smart modules, integrating power, cooling, and energy management to support efficient data center deployment. Key features include safety, energy efficiency (PUE 1.111), and intelligent monitoring. In formula form: $PUE = \frac{\text{Total Data Center Facility Power}}{\text{IT Equipment Energy}}$. Meta's data center in Luleå, Sweden, is one of the best-known examples. 07, supported entirely by outside air cooling for most of the year.



Article Content

Understanding PUE Data Center Metrics: Boost Energy Efficiency and

Unlock the power of your PUE data center with this comprehensive guide—discover what Power Usage Effectiveness means, why it matters, industry benchmarks, and proven strategies for efficiency.

Data center average annual PUE worldwide 2025| Statista

Responding to a 2025 survey, data center owners and operators reported an average annual power usage effectiveness (PUE) ratio of 1.54 at their largest data center.

PUE Secrets: Google, Meta & Huawei's Efficiency

Discover the PUE strategies of Google, Meta & Huawei. Learn why sustained efficiency matters more than peak PUE in real-world data center operations.

Leading the Way Again! Huawei Intelligent Micro Module Maintains

Huawei leads China's micro module data center market in 2023, driven by AIGC and edge computing. The FusionModule Intelligent Micro Module, launched in 2012, addresses

iCooling@AI: Smart cooling for data centers

PUE is a KPI that measures the energy efficiency of data centers. Cooling – a key component of a data center – is closely related to equipment heat dissipation, equipment configuration, facility

Next-Generation Full-Stack Data Center: Reduce PUE with a ...

To successfully improve PUE in the data center through liquid cooling solution, it is crucial to meet key requirements of system security, intelligence, standardization, and operability, including path sealing

Power Usage Effectiveness (PUE) in Data Centers: Real-World

What Is Power Usage Effectiveness (PUE) and Why It Matters PUE, short for Power Usage Effectiveness, is one of the most recognized metrics in the data center industry — not

Huawei's Intelligent Micro-Module Tops China's Micro-Module Data

This advanced solution boasts high-density deployment capabilities, flexible scalability, green and low-carbon operations, unparalleled safety and reliability, as well as efficient maintenance,

FusionModule800 Datasheet

Huawei FusionModule800 Smart Small Data Center is a revolution in data center design with its emphasis on simplicity, efficiency, and reliability. It is integrated with PDU, UPS, monitoring, and

Huawei Intelligent Micromodule Deploys DeepSeek Big Model for

The wave of intelligence is rushing in, and the artificial intelligence big model is profoundly reshaping the future picture of the education industry.

Leading the Way Again! Huawei Intelligent Micro Module Maintains

Over the past twelve years, Huawei has continuously innovated, accelerating the iterative upgrade of micro modules, comprehensively improving their performance, and leading the industry

Building a Low-Carbon Smart Future | Global Smart Green Data ...

Smart: iCooling@AI energy efficiency optimization facilitates on-demand intelligent cooling in smart modular data centers, reducing the PUE by more than 15%. Energy consumption is

FusionModule800 Smart Modular Data Center | Huawei

Huawei FusionModule800 offers an intelligent small data center solution, perfect for financial, government, healthcare, and energy sectors, combining compact

PUE Secrets: Google, Meta & Huawei's Efficiency

According to Meta's own documentation, the facility reports a PUE as low as 1.07, supported entirely by outside air cooling for most of the year. That performance is real, and the

Complete Guide to Data Center PUE | Energy Efficiency Explained

Calculate PUE (Power Usage Effectiveness) instantly. Learn what is PUE, PUE formula, and how to calculate PUE for data centers. Free calculator with AI recommendations for energy optimization.

FusionModule2000 Smart Modular Data Center

Huawei FusionModule2000 is a modular data center solution with smart modules, integrating power, cooling, and energy management to support efficient data center deployment.

A Record in the Industry: The PUE of Huawei Smart Modular Data

The new PUE test record of Huawei Smart Modular Data Center is of great significance to promote the green and energy-saving development of the data center industry and reduce carbon

Huawei Cloud: Improving PUE to Build Green Data

To reduce energy consumption and GHG emissions, Huawei Cloud's data center in Gui'an has green and intelligent technologies incorporated into its design. Its

PUE Configuration Management

The PUE configuration management method varies according to the ECC800-Pro version. Obtain the ECC800-Pro Data Center Controller User Manual of the corresponding version. This section

Smart Modular Data Center Facilities

The Intelligent Micro Module, the Element of Intelligent Data Centers The modular data center, comprised of micro modules, has become more and more popular. The modules' flexibility and

What is power usage effectiveness (PUE) in data centers? Overview ...

Power usage effectiveness (PUE) is a ratio that describes how efficiently a data center uses its power. Explore why it still matters, where it falls short, and how to improve efficiency beyond the headline

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Huawei Unveiled the Latest SuperPoD, Making an AI Infrastructure New ...

With an innovative "cluster + SuperPoD" architecture, Huawei is delivering a resilient computing foundation, powered by an open and collaborative ecosystem. This foundation will

Huawei claims "industry record" with PUE of 1.111

Huawei says this is an improvement over a previous record of 1.245, recorded in November 2018. In fact, PUE figures lower than that have been reported: notably a 1.018 PUE by the

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