Price of waterproof server rack



Overview

The Alphacool ES 19" Open Frame Server Rack with customizable depth is a mobile and modular solution for server systems.

Key Takeaways

Waterproof server racks are available in IP55 to IP68 ratings, with prices typically ranging from $500 to over $3,000 depending on size, material, and protective features. Types and RatingsIP-Rated Racks: Waterproof server cabinets are rated using the IP (Ingress Protection) standard, which defines protection against dust and water. Common ratings include: IP55: Protected against dust and low-pressure water jets; suitable for outdoor or industrial use.

IP65: Dust-tight and resistant to powerful water jets; ideal for coastal or high-humidity environments. IP66/IP67: Can withstand temporary immersion or strong water jets; used in marine or industrial settings. IP68: Designed for continuous submersion under specified conditions, offering maximum protection.

NEMA-Rated Racks: In North America, NEMA 12 enclosures provide indoor dust and water resistance, protecting against dripping or light splashes while safeguarding personnel from hazardous equipment.

Materials and Construction

Stainless Steel (304/316): Offers high corrosion resistance, ideal for outdoor or marine environments.

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Rubber Gasket Seals and Drain-

Resistant Vents: Prevent water ingress and allow safe ventilation. Locking Mechanisms: Ensure physical security of critical IT assets.

Sizes and Features

Standard 19-inch width with heights ranging from 24U to 45U. Thermal Management: Some models include integrated cooling solutions capable of dissipating several kW per rack unit. Cable Management and Vibration Damping: Enhance long-term maintenance efficiency.

Seismic and NEB

S Compliance: Available for installations in active fault zones or carrier-grade telecom environments. Pricing OverviewEntry-Level IP55/NEMA 12 Racks: Approximately $500–$1,200, suitable for small data centers or indoor industrial use.

Mid-

Range IP65 Racks (24U–42U): Around $1,200–$2,500, offering higher water resistance and corrosion protection.

High-

End IP66/IP67/IP68 Stainless Steel Racks: Can exceed $3,000, designed for harsh outdoor, marine, or industrial environments with advanced thermal management.

Recommendations

Indoor, light water exposure: NEMA 12 or IP55 racks are sufficient. Outdoor or high-humidity environments: IP65 or higher with stainless steel construction is recommended. Critical industrial or marine applications: Consider IP66–IP68 with full corrosion resistance, integrated cooling, and security features.

Selecting the right waterproof server rack depends on environmental conditions, rack size, cooling requirements, and budget. Always verify IP/NEMA ratings, material quality, and manufacturer certifications before purchase.

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Article Content

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