Data Center IT Rack
OCP ORV3

The Foundation for Next-Generation Infrastructure

A proven, industrialized open rack platform designed for hyperscale performance and large-scale, rapid global deployment.

- Industrialized, mass-produced design ready for global deployment
- Global footprint (Asia, North America, Europe)
- Market leader in custom racks for hyperscale data centers
- Green steel options available (R50+ recycled steel)

Overview

- ***OCP Open Rack V3 compliant rack***
- ***Optimized for high-density, efficient deployments***
- ***Open, interoperable platform***

OCP EMBODIED CARBON DISCLOSURE

OCP INSPIRED

48V DC Power Distribution Reduces power conversion losses and improves efficiency	**Blind-Mate Power & Cooling** Enables faster deployment and simplified maintenance
Tool-less Installation Accelerates rack build and serviceability	**Single Power Zone Design** Simplifies power management and improves reliability

flex

Optimized Advantages for Hyperscale Environments

Designed to support today's high-density workloads while preparing data center infrastructure for future demands, the OCP ORV3 rack delivers measurable operational and efficiency advantages at scale.

Technical Specifications

A high-level view of the OCP ORV3 rack's core physical and operational characteristics.

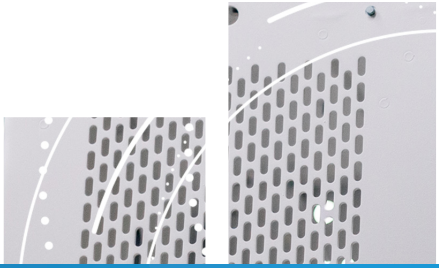
Dimensions (H x W x D)	2286 mm (90 in) x 600 mm (23.62 in) x 1068 mm (42.05 in)
Weight	406 lbs
Rack Units	44 Open Units (OU) / 48 Rack Units (RU)
Static Load Capacity	1600 kg (3527 lbs)
Dynamic Load Capacity	1400 kg (3086 lbs)
Power Architecture	48V DC Busbar
Cooling Support	Air-cooled with provisions for blind-mate liquid cooling integration
Material Options	G30 / ASTM A653 / Green steel (R50+)
Paint Options	Available upon request

Customization & Engineering Support

Flex provides end-to-end engineering capability to tailor the OCP ORV3 rack to specific operational and infrastructure requirements, while maintaining compliance with OCP standards.

Customization examples:

- Rack dimension and configuration adjustments
- Custom busbar and power distribution options
- Air or liquid cooling integration support
- Prototyping, validation, and production readiness testing



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