Product brochure

Simplify deployment of AI-ready OCP ORV3 racks

Pre-engineered solutions make next-gen compliance quick and easy

AI, HPC and next-generation compute are increasing the demands on rack infrastructure in data center white space. Higher power densities, evolving thermal strategies and OCP® specifications require racks that natively support emerging power and cooling architectures. Eaton's ready-to-ship OCP ORV3 racks allow you to support these emerging technologies efficiently and cost-effectively, without the complexity of engineering custom designs.

Pre-engineered for OCP ORV3 environments

- Support OCP ORV3 equipment with a heavy-duty rack.
- Choose 39OU or 44OU open rack heights to match site requirements and deployment preferences.
- Configure racks with touch-safe busbars, stabilizers, HPR extensions, doors, side panels, blanking panels and 50V DC power, depending on application needs.

Built for high-density infrastructure

- Support demanding AI, HPC, next-gen compute and other high-density deployments.
- Hold heavier equipment with a 5,000-pound static and 3,500-pound dynamic weight capacity.
- Support the ORV3 high-power rack (HPR) profile.
- Accommodate high-density cabling and manifolds for direct-to-chip cooling systems.

Simplified for accelerated deployment

- Deploy OCP ORV3 racks using commercially available, ready-to-ship, fully assembled configurations.
- Avoid the design burden and long lead times associated with ODM-sourced rack infrastructure.
- Customize Eaton rack designs quickly to meet application or environment requirements.

Flexible and scalable to meet your needs

- Select preconfigured open rack bundles and add accessories to match your application requirements.
- Support mixed environments with accessories for 21" OCP ORV3 and 19" EIA equipment mounting.
- Add optional Eaton DC power and BBU shelves for easy integration of 50V DC power infrastructure.

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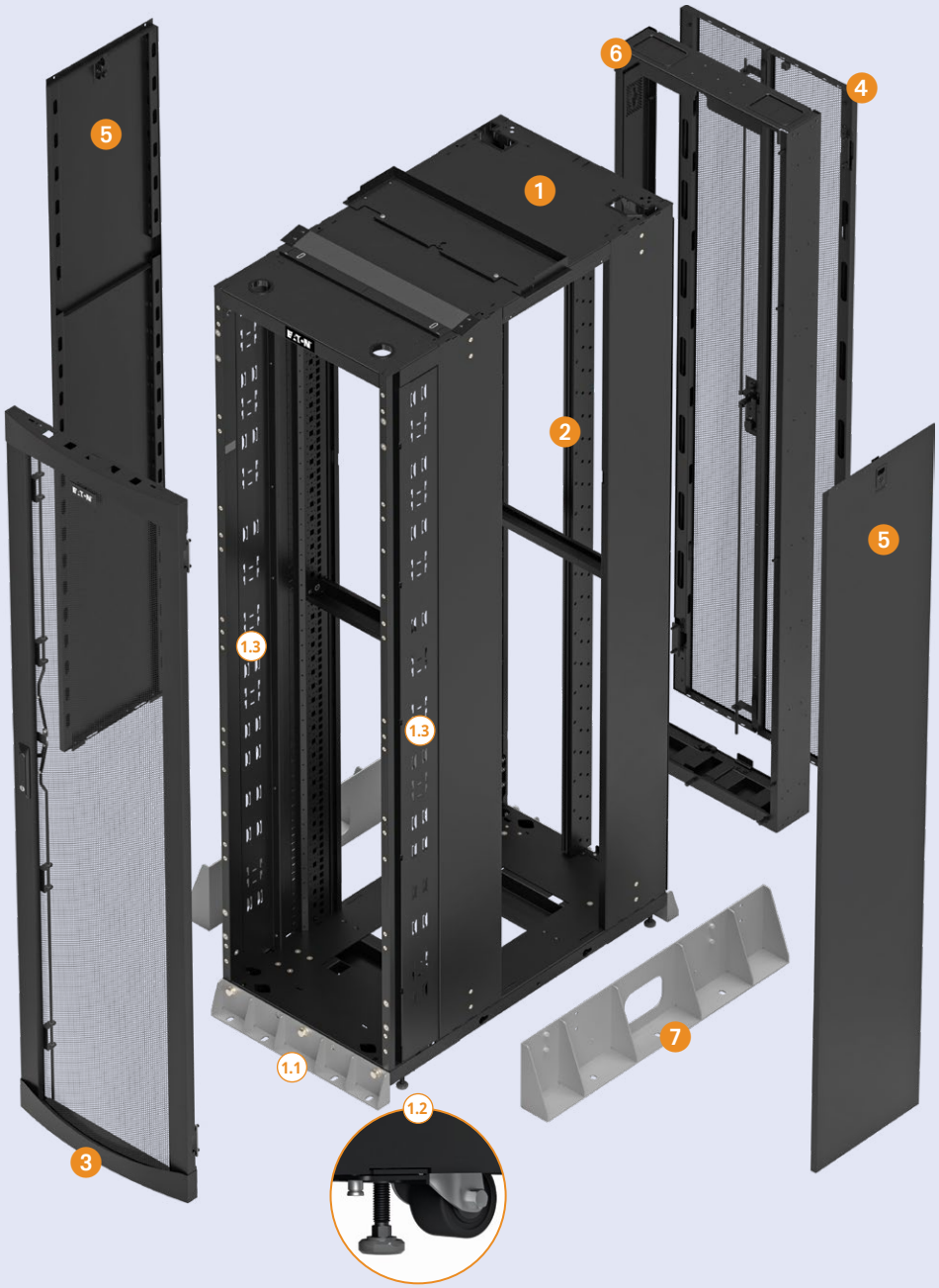
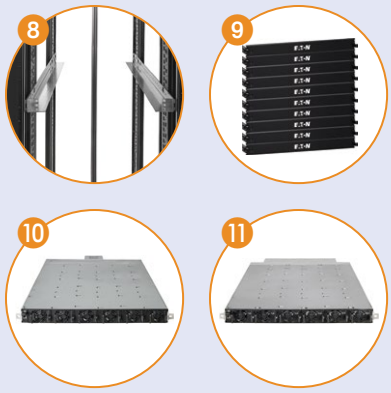
OCP PLATINUM® Member

OCP SOLUTION PROVIDER®

Eaton ORV3 rack features

1. **OCP ORV3 rack** (5,000-pound static weight capacity; 39OU or 44OU)
   - 1.1 **Front/rear stabilizers** (included)
   - 1.2 **Casters and levelers** (included)
   - 1.3 **Cable managers** (included)
2. **600A or 1,400A bidirectional touch-safe busbar** (bundled with select models; bidirectional current flow supports increased capacity with power shelves placed in zones)
3. **Front door** (bundled or sold separately)
4. **Split rear door** (bundled or sold separately)
5. **Two side panels** (bundled or sold separately)
6. **HPR extension** (bundled or sold separately)
7. **Two side stabilizers** (sold separately)
8. **Rail kits** (sold separately; 1OU or 2OU; 21″ OCP ORV3 or 19″ EIA equipment)
9. **1OU blanking panels** (10-pack sold separately; toolless installation)
10. **50V DC power shelf** (sold separately; 33 kW output capacity; 1RU form factor; scaling to 132 kW per rack with 1,400A bidirectional touch-safe busbar)
11. **50V DC BBU shelf** (sold separately; 16.8 kW output capacity; 1RU form factor; > 90 seconds of battery backup runtime at full load)





Key applications

- High-density AI and HPC racks
- Enterprise data center white space deployments
- Colocation and multi-tenant data center environments
- System integrator builds and repeatable rack configurations
- OCP pilot and migration programs
- Neocloud and hyperscale-inspired deployments adopting OCP-driven architectures

Ordering information (ORV3 racks)

Pre-engineered ORV3 racks provide a future-ready foundation for high-density compute environments, with configurations and accessories designed to support evolving power and equipment needs. Eaton's designs are also customizable for specific deployment requirements.

SR44OCPB1

Racks shown without front/rear stabilizers.

SR44OCPHPR

ORV3 racks

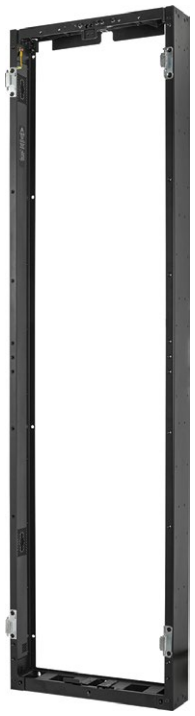
- Designed to OCP ORV3 specifications
- Compatible with 21" OCP ORV3 and 19" EIA equipment
- Weight capacity: 5,000 pounds static, 3,500 pounds dynamic
- Built-in cable managers
- Five-year limited warranty

Model	Description
SR39OCP	ORV3 39OU rack with front/rear stabilizers
SR44OCP	ORV3 44OU rack with front/rear stabilizers
SR39OCPB1	ORV3 39OU rack with 600A bidirectional* touch-safe busbar and front/rear stabilizers
SR44OCPB1	ORV3 44OU rack with 600A bidirectional* touch-safe busbar and front/rear stabilizers
SR39OCPHPR	ORV3 39OU rack with side panels, front door, split rear door, HPR extension, 1,400A bidirectional* touch-safe busbar and front/rear stabilizers
SR44OCPHPR	ORV3 44OU rack with side panels, front door, split rear door, HPR extension, 1,400A bidirectional* touch-safe busbar and front/rear stabilizers

* Bidirectional current flow supports increased capacity with power shelves placed in zones.

SRFDR4424XXOCP

SR44SIDEOCP



SREXTENDER44OCP

ORV3 rack accessories

Model	Description
SRRAILKIT1OU19S	ORV3 mounting rail kit, 1OU, 19" EIA bracket, standard length*
SRRAILKIT1OU19E	ORV3 mounting rail kit, 1OU, 19" EIA bracket, extended length*
SRRAILKIT2OU19S	ORV3 mounting rail kit, 2OU, 19" EIA bracket, standard length*
SRRAILKIT2OU19E	ORV3 mounting rail kit, 2OU, 19" EIA bracket, extended length*
SRRAILKIT1OU21S	ORV3 mounting rail kit, 1OU, 21" OCP ORV3 bracket, standard length*
SRRAILKIT1OU21E	ORV3 mounting rail kit, 1OU, 21" OCP ORV3 bracket, extended length*
SRRAILKIT2OU21S	ORV3 mounting rail kit, 2OU, 21" OCP ORV3 bracket, standard length*
SRRAILKIT2OU21E	ORV3 mounting rail kit, 2OU, 21" OCP ORV3 bracket, extended length*
SRSIDESTABLEOCP	ORV3 rack side stabilizers (2-pack)
SRPANEL1UOCP	ORV3 1OU blanking panels (10-pack)
SRFDR3924XXOCP	ORV3 39OU front door, 24" wide
SRFDR4424XXOCP	ORV3 44OU front door, 24" wide
SRSDR3924XXOCP	ORV3 39OU split rear door, 24" wide
SRSDR4424XXOCP	ORV3 44OU split rear door, 24" wide
SR39SIDEOCP	ORV3 39OU side panels (2-pack)
SR44SIDEOCP	ORV3 44OU side panels (2-pack)
SREXTENDER39OCP	ORV3 39OU HPR extension
SREXTENDER44OCP	ORV3 44OU HPR extension

* Standard-length rail kits support equipment up to 30" deep. Extended-length rail kits support equipment up to 32" deep.

Ordering information (50V DC power)

Eaton's modular 50V DC power solutions meet you where you are in your power journey, enabling efficient, cost-effective DC power deployment in busbar-enabled 19" racks while also supporting fully integrated 21" OCP ORV3 racks.

EPSRU33KW-62PMC

EBBURU16-5KW-B

50V DC power shelf and PSUs

- 33 kW per 1RU power shelf and scaling to 198 kW* per rack
- Compatible with 21" OCP ORV3 and busbar-enabled 19" racks**
- Hot-swappable PSUs (power supply units)

Model	Description
EPSRU33KW-62PMC	50V DC power shelf, 33 kW, 1RU, 19" (PSUs sold separately)
EPSU5-5KW	5.5 kW hot-swappable PSU
EPSU5-5KW-6	5.5 kW hot-swappable PSUs (6-pack)
EPSC1560P6-10	33 kW power shelf power cable, 560P6 plug, 415/240V, 60A, 10'
EPSC1560P7-10	33 kW power shelf power cable, 560P7 plug, 480/277V, 60A, 10'

50V DC BBU shelf and BBU modules

- 16.8 kW per 1RU and > 90 seconds of backup runtime at full load
- Compatible with 21" OCP ORV3 and busbar-enabled 19" racks**
- Hot-swappable BBU (battery backup unit) modules

Model	Description
EBBURU16-5KW-B	50V DC BBU shelf, 16.8 kW, 1RU, 19" (BBU modules sold separately)
EBTRY2-75KW	2.8 kW hot-swappable BBU module
EBTRY2-75KW-6	2.8 kW hot-swappable BBU modules (6-pack)

* Scaling requires multiple power shelves, and capacity may be limited by busbar capacity. Maximum capacity per rack is 132 kW with Eaton's 1,400A bidirectional touch-safe busbar.
** 21" ORV3 rack installation requires SRRAILKIT1OU19E rail kit, sold separately.

Due to continuous improvement programs, all specifications are subject to change without notice.

Thermal management

Eaton combines ORV3 rack infrastructure, power distribution and **Boyd™ Thermal by Eaton** liquid cooling technologies into an integrated platform engineered for high-density data center deployments. Designed as a complete system, the platform helps reduce power and thermal integration challenges, streamline qualification and simplify deployment through a unified architecture spanning grid-to-chip and chip-to-ambient solutions.

- Coolant distribution units (CDUs)
- Rack manifolds
- Secondary fluid network (SFN)
- Rear-door heat exchangers
- Chip-to-ambient thermal management solutions

Learn more at
Eaton.com/ORV3

Powering Business Worldwide

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