

Eaton Open Compute Project solutions

Combine the latest innovations with off-the-shelf convenience

Eaton's Open Compute Project (OCP) solutions offer a range of efficiency, scalability and cost-saving benefits to IT customers. Implementing OCP standards has traditionally required organizations to devote significant engineering resources to designing solutions from scratch, but Eaton has done the work in advance. Offering preconfigured solutions, Eaton allows you to deploy OCP ORV3 racks for testing or production without making a costly engineering commitment. Eaton's reference designs are also fully customizable to meet the needs of individual customers and IT environments.

Eaton's OCP solutions help eliminate:

- Need for large engineering teams to design solutions from scratch
- Lack of choice in solution providers
- Lack of established, familiar and trusted providers
- Lack of off-the-shelf solutions
- Lack of easily customizable solutions
- Lack of transitional solutions that can support OCP 21-inch and EIA 19-inch hardware simultaneously



Powering Business Worldwide



OCP solutions detail

Eaton provides solutions to rack and power IT hardware compatible with the new Open Rack V3 (ORV3) standards, as well as transitional hybrid solutions that support both ORV3 and traditional EIA equipment. Eaton OCP solutions can be used off the shelf or as reference designs for fully customized solutions.

Eaton OCP solutions provide high density, efficiency and convenience:

- Up to 15 kW (N+1) per rack (30 kW dual shelf)
- Up to 50% energy savings
- Convenient blind-mate power connections
- Support for 21-inch ORV3 "OU" equipment and 19-inch EIA "RU" equipment in the same rack

Open rack enclosure

Based on an extra-wide and extra-deep cabinet with two locking colocation compartments, the open rack enclosure supports hybrid equipment mounting. Upper and lower sets of mounting rails are convertible to support 21-inch ORV3 equipment or traditional 19-inch EIA equipment, allowing the rack to support either standard or a mixture of both, which is the default configuration. The open rack enclosure is available with or without a built-in ORV3 busbar and ORV3 power shelf. (See the next page for more information about these options.)

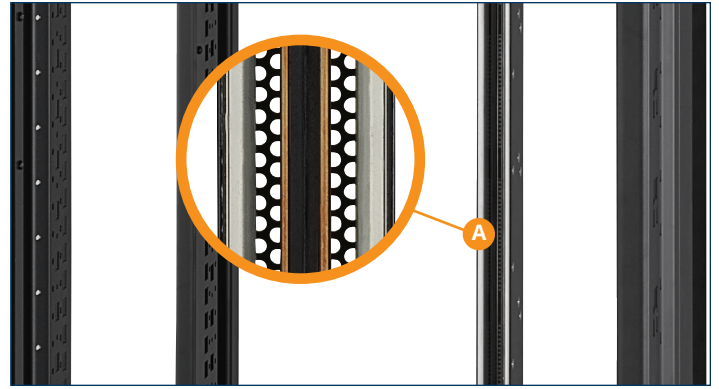
- A EIA "RU" mounting rails for 19-inch rack equipment** (Convertible to ORV3 rails)
- B ORV3 "OU" mounting rails for 21-inch rack equipment** (Convertible to EIA rails)
- C Optional ORV3 busbar**



Busbar

The vertical ORV3 busbar distributes DC power from a power shelf to equipment mounted in the open rack through convenient blind-mate power connections.

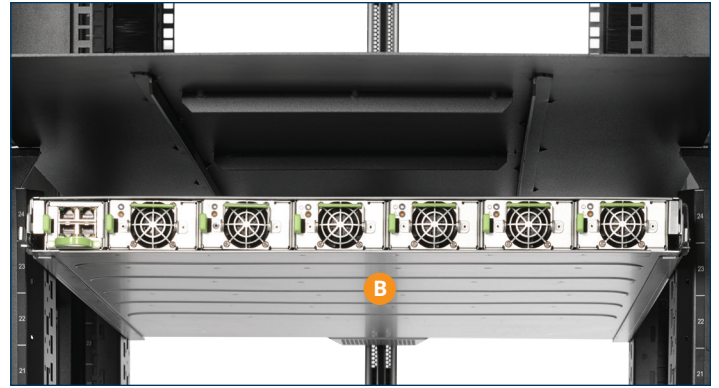
A Optional ORV3 busbar (Vertical mounting)



Power shelf

The ORV3 power shelf provides up to 18 kW of DC power (15 kW N+1). It connects to the busbar through a convenient blind-mate power connection.

B Optional ORV3 power shelf (18 kW or 15 kW N+1)



Power cords

Detachable AC input power cords connect to an ORV3 power shelf to support a variety of site power connections, including IEC and NEMA.

C OCP ORV3 universal AC connector (Connects to ORV3 power shelf)



Eaton OCP solution environments:

- Enterprise data centers
- Hyperscale data centers
- Multitenant data centers
- Supercomputing data centers
- HPC data centers
- Edge installations

Eaton OCP solution markets:

- Enterprise
- Telecom
- Datacom / ISP
- Colocation
- Higher education
- Edge computing

Ordering information

Eaton OCP solutions (Part numbers are subject to change.)

Part number	Description
Eaton OCP ORV3 DC power solutions	
EORV18KW	OCP ORV3 18 kW 1U DC power shelf (15 kW N+1) with power monitoring interface (PMI) module; holds up to (6) 3 kW power supplies, sold separately
EORV3KWPS	OCP 3 kW DC power supply for DC power shelf (6 per shelf)
Eaton OCP ORV3 racks with flexible 21-inch "OU" and 19-inch "RU" mounting	
EORV42RUNBB	OCP ORV3 42U rack enclosure without DC busbar
EORV49RUNBB	OCP ORV3 49U rack enclosure without DC busbar
EORV42RU1BB	OCP ORV3 42U rack enclosure with DC busbar
EORV49RU1BB	OCP ORV3 49U rack enclosure with DC busbar
EORV42RU48B	OCP ORV3 42U rack enclosure with DC busbar, 18 kW power shelf and power supplies
EORV49RU48B	OCP ORV3 49U rack enclosure with DC busbar, 18 kW power shelf and power supplies
Eaton OCP input power cords (for ORV3 power shelves, including EORV18KW)	
EORV360P6-10	OCP input power cord, IEC 60309 360P6W, 10 ft.
EORV460P9-10	OCP input power cord, IEC 60309 460P9W, 10 ft.
EORV516P6-10	OCP input power cord, IEC 60309 516P6W, 10 ft.
EORV532P6-10	OCP input power cord, IEC 60309 532P6W, 10 ft.
EORVL1530-10	OCP input power cord, NEMA L15-30P, 10 ft.
EORVL2130-10	OCP input power cord, NEMA L21-30P, 10 ft.
EORVS8365-10	OCP input power cord, CS8365C, 10 ft.
Eaton OCP Olympus-compatible AC power solutions*	
EMACZA5AYE5EK2	ePDU G3HD MA, HARTING/OCP 32A, 6xDP-20A-10kAIC, (24) C13, (12) C39, 82.46 in./47.1U
EMACZA5AYA5A5K2	ePDU G3HD MA, HARTING/OCP 32A, 6xDP-20A-10kAIC, (12) C13, (12) C39, 70.02 in./40U

* Eaton high-density rack PDUs are fully customizable, with thousands of possible configurations available. Examples are listed for illustration and ease of ordering.



Eaton Olympus-compatible ePDU

Eaton Enterprise DC power solutions



Visit Eaton.com/DCPower for more information.

Learn more at Eaton.com/OCP



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Printed in USA
Publication No. BR159022EN / 23-10-006
October 2023

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