



ORION RACK

DESCRIPTION

The barpa ORION Data Center Cabinet is engineered to support high-performance IT environments, providing a robust and scalable enclosure solution for modern data center infrastructures. Designed with a durable steel structure and high airflow perforated doors, it ensures efficient thermal management while supporting high-density equipment deployments. Its flexible configuration and compatibility with cable management and containment systems enable seamless integration into structured data center environments.



APPLICABLE STANDARDS

- EN 61587-1 • EN IEC60297 Series • EN IEC60917 Series
- EIA/ECA-310-D/E • EN IEC60529 • EN IEC62262 • RoHS Directive (2011/65/EU)

KEY FEATURES

- Modular design enabling seamless integration with containment systems and flexible deployment across various data center layouts
- High load capacity up to 2000 kg supporting high-density IT equipment deployments
- Optimized airflow design with 80% perforation for efficient cooling performance
- Designed for barpa ORION data center solution
- Scalable configuration

MECHANICAL & PHYSICAL SPECIFICATIONS

Material	Cold-rolled steel, grade DC01
Color	Anthracite Grey (RAL 7016)
Thickness (mm)	1,2
Thickness of the surface finish (µm)	80 ± 20
Width (mm)	600 or 800
Height (U)	42 or 47
Depth (mm)	1200
Loading Capacity (kg)	2000
Door Perforation	Single Front Door with 80% Perforation Double Back Door with 80% Perforation
Max Door Opening Angle	180°
IK	07
Earth Connection	Yes
Packaging	ORION cabinets can be shipped in disassembled packing, saving transportation and storage cost or assembled according to the project needs.

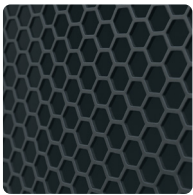
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More information: info@barpa.eu or in www.barpa.eu

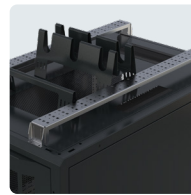
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range (°C)	-10 to +50
Storage Temperature Range (°C)	-10 to +50
Operating Humidity (%RH)	40 to 60

HIGHLIGHTS



Front & Rear Perforated Doors
80% open area for optimized airflow and efficient hot/cold aisle containment.



Brush Cable Entries
Multiple brush cable entries for clean pass-through and reduced air leakage



Perforated Top Covers
Improve upward airflow and prevent heat accumulation at the top of the cabinet.



Vertical Cable Organizers (800mm)
Design with fingers for structured, high-density patch-cord routing



Double Side Panels with Brushed Cable Entries
Allow lateral cable transitions while preserving airflow containment.



Adjustable Rails
740mm adjustable rails for an optimum adaptancy

PACKAGING INFORMATION 600mm WIDTH

Description	Quantity
Single Perforated Front Door	1
Double Perforated Rear Door	1
Double Side Panels with Brush Cable Entry	2
Top Panel with Brush Cable Entry	1
Bottom Panel with Brush Cable Entry	1
PDU Cable Management	4

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PACKAGING INFORMATION 800mm WIDTH

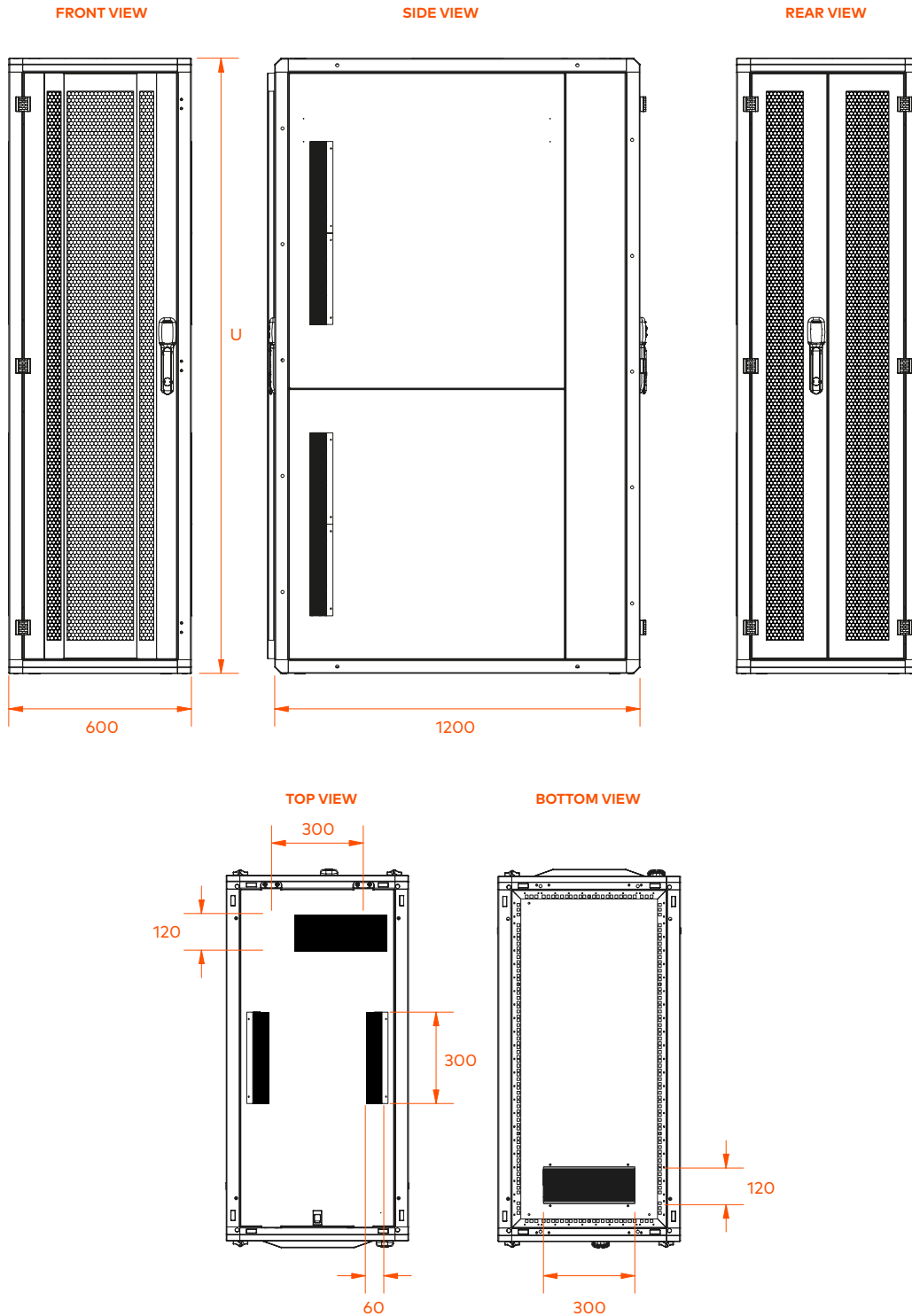
Description	Quantity
Single Perforated Front Door	1
Double Perforated Rear Door	1
Double Side Panels with Brush Cable Entry	2
Perforated Top Panel with Brush Cable Entry	1
Bottom Panel with Brush Cable Entry	1
PDU Cable Management	4
Finger Structured Vertical Cable Management	4

REFERENCES

Code	U	Width (mm)	Depth (mm)	Description
82410000000	42	600	1200	ORION Rack - 42U 600x1200
82410001000		800		ORION Rack - 42U 800x1200
82410010000	47	600		ORION Rack - 47U 600x1200
82410011000		800		ORION Rack - 47U 800x1200

TECHNICAL DRAWING (mm)

600mm



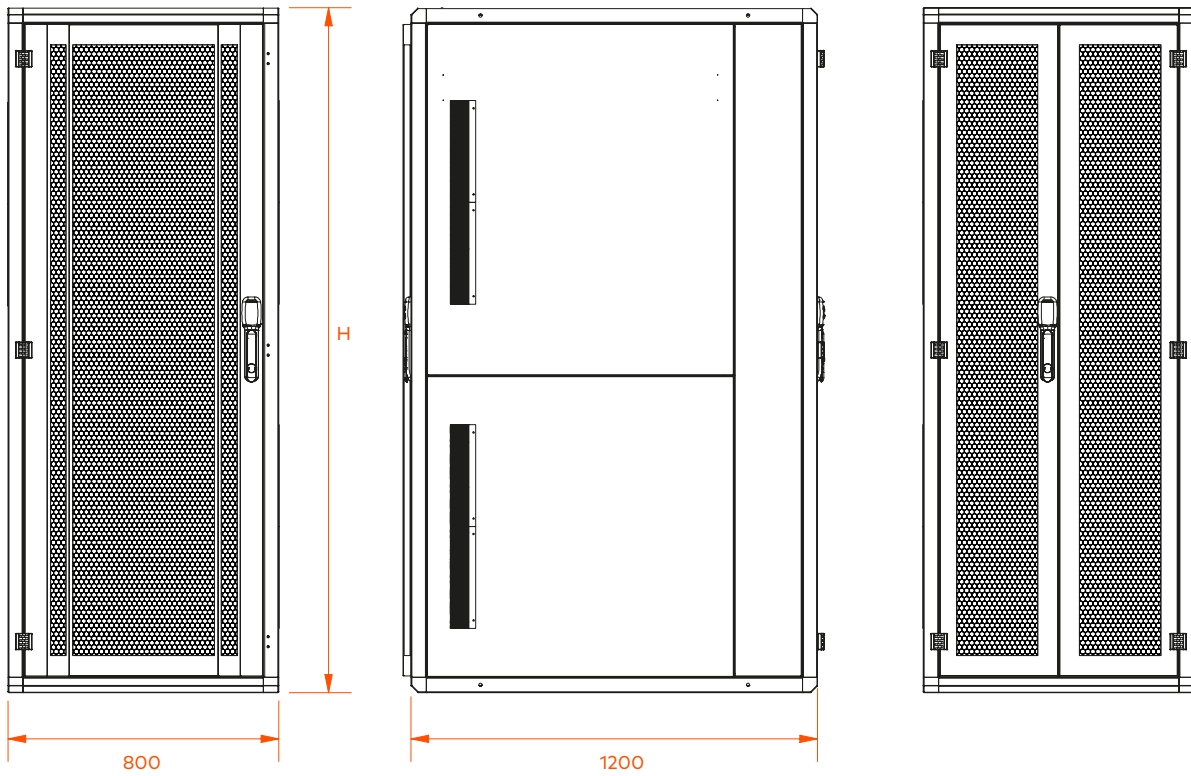
TECHNICAL DRAWING (mm)

800mm

FRONT VIEW

SIDE VIEW

REAR VIEW



TOP VIEW

BOTTOM VIEW

