Open Rack V2 Overview

- Complies with Open Rack Standard V1.1
- Backwards compatible with all Open Rack V1 IT Gear
- Supports dynamic loading of 1400kg per ASTM D4169-09
- Footprint similar to 19” EIA rack
Open Rack Layout

Power Zone

Open Rack IT Zone (538mmx800mm)
Greater IT volume per floor tile vs. EIA

2x DATA Cable Zones (26mmx160mm)
Accessible from cold aisle
Segregated from AC power

Service Technician
can perform high failure rate repairs from cold aisle

Top View

Data Center Air Flow
**V2 Cabling**

- Ground points located near front of rack for easy access
- Openings on top provide cable egress to data center
- Openings on side provide cable egress to neighboring rack
- Lances in rack provide cable management points
V2 Power
V2 Power Layout

1 Power Zone = 19OU
+3OU Power Shelf

1 Power Zone = 16OU
+3OU Power Shelf
V2 Power Layout

1 Power Zone = 19OU +3OU Power Shelf

1 Power Zone = 16OU +3OU Power Shelf
V2 Power Layout

AC PDU
TOR
12V BUSBAR
AC/DC PSU
BBU
12V BUSBAR
AC/DC PSU
BBU

DC PDU

54V and MGMT from shelf to PDU
V2 Power Shelf

Output: **6.6Kw @12.6VDC**
Input: **Single, 3 Phase 180V-305V auto ranging**
2+1 redundant, hot swap PSUs
Integrated, hot swap BBUs provide 90 seconds of uptime
V2 Power Shelf

- 3 phase AC Input
- 12V Power Good LED
- RS485 MGMT port
- 12VDC Output busbars
- 54VDC Output to DC PDU
- 3 phase AC Input
- 12V Power Good LED
V2 Stingray 208V Power Shelf

**Input:** 208V, 3 phase, Dual A+B AC

**Outputs:**
- 6.3kW @ 12.5VDC
- 6xC13 single phase AC
- 48VDC AUX
- 6x2.1kW, 3+3 redundant, hot-swap PSUs
V2 Stingray 208V Power Shelf

- IEC320 C13 outlet
- Breaker for AC input B
- Main O/P 12V
- Breaker for AC input A
- IEC320 C13 outlet
- RJ45 connector
- 48 VDC AUX
- AC input B connector
- AC input A connector
- LED for 12V output
- PWOK connector
V2 PDU Locations

2 PDU locations under canopy
Both locations support

Wires from PDUs to Power Shelves route inside frame vertical
## V2 PDUs Available

<table>
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<tr>
<th>Type</th>
<th>NA, 277/480</th>
<th>EU, 240/415</th>
<th>NA, 120/208</th>
<th>NA, 277 CS</th>
<th>NA, 277 30A</th>
<th>DC PDU</th>
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<td>277V/480V 3P5W</td>
<td>240V/415V 3P5W</td>
<td>208V 3P4W</td>
<td>277V 1P3W</td>
<td>277V/480V 3P5W</td>
<td>54VDC</td>
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<td>Europe</td>
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<td>J-box NA</td>
<td>All racks</td>
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V2 IT Form Factors
Open Rack V2 IT Form-Factors

1 OpenU Generic Full Volumetric

481
800
537±0.50
Open Rack V2 IT Form-Factors

Cubby 2 OpenU Sub-Chassis

- Connector to 12V DC to Busbar
- Wire Harness splits power to 3 IT slots
- Each IT Slot provides 89 x 176 x 690mm
  20kg max per slot
Open Rack V2 IT Form-Factors

Cubby 2 OpenU Sub-Chassis

~800 mm

89 mm

~175 mm

~690 mm