Vertiv™ PowerBar Track DC

Open-track busway system, 800 VDC



Benefits

- **Capacity that moves:** tap-off points sit where the racks are, so a layout change is a re-tap, not a new cable pull
- **Phased ratings:** 800 A and 1000 A track on a common tap-off and connector design, UL first
- **Metered through the run:** smart meters report energy, current and temperature to DCIM or BMS
- **Open channel design:** tap-offs anywhere along the track for flexible power distribution layouts
- **Built for a live room:** interlocked boxes, plated contacts and 1000 V rated insulation for live-bus work

As AI racks push power density higher, distributing hundreds of kilowatts to every rack over conventional AC systems upgrading existing compute layouts becomes more difficult. If RPP is used this often means removing and pulling in new feeds which could result in increased upgrading costs. Vertiv™ PowerBar Track closes that gap between power conversion and the IT rack, an open channel busbar that can carry conventional AC supplies or 800 VDC overhead with a metered, breaker-protected drop at every rack, making the white space future-ready.

Description

Vertiv PowerBar Track is an open busway system built to keep up with the changing power demands of the data center white space. It distributes power along the tops of the racks, and a range of amperages and tap-off boxes means every rack below gets exactly the power it needs. AI is changing how data centers are powered, and Vertiv PowerBar Track is changing with it. The new 800 VDC range launches with ratings up to 1000 A, the first to receive UL listing. The range includes track systems from 800 A to 1250 A, conventional tap-off boxes up to 200 A and new inline tap-off boxes up to 600 A that feed power to Energy Centers.







Application

- AI data centers and AI factories on 800 VDC pod architectures
- Overhead distribution from a power center to the IT racks
- New build and phased expansion where rack layout will change

Technical specifications

	800 / 1000 A track
Electrical	
System	2-phase, 3-wire: positive, negative and protective earth
Rated voltage	800 V ±6%
Rated insulation voltage	1000 V
Rated current, busbar trunking unit	1000 A
Rated impulse withstand voltage	8 kV at the busbar trunking unit; 6 kV at the tap-off box
Short-time withstand current	20 kA rms at the 800 A build; 50 kA rms (1 s) at the 1250 A track (IEC)
Conductor material	Copper
Certification	UL857
Distribution components	
Inline Tap-off box	630 A, with MCCB and smart meter; compatible with the Energy Center
Tap-off box	Two 125 A outputs, with MCCB, smart meter and mechanical/electrical interlock
Cable end box	Cable Entry box available with metering gateway available
Busbar trunking unit	1000 A copper; straight length and joint pack range to be confirmed
System composition	Cable centre feed, cable end box, straight length, joint pack, tap-off box and end cap, with a monitoring box as an option

Preliminary Specifications (subject to change without notice.)

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