

HVS 15000B-336 CabD

HVDC power system



Description

CabD is Delta's robust indoor cabinet developed for expandable telecom power systems. High voltage DC system reduces installation losses as the current to power ratio decrease. Maximum power of single rectifier cabinet can be up to 225 kW. Paralleling to 450 kW and DC load currents up to 1350 A.

A complete system includes high voltage DC rectifiers, AC and DC connections, battery connections and the advanced ORION controller. Possible cabinet configurations are all in one combined and distributed. In the distributed version the rectifiers are separated from DC connections in individual cabinets.

The multi cabinet HVDC power system is easy to define with a table-based technical configuration file. Breaker ratings, layout among other features can be custom configured according to customer requirement.

Delta has reputation in quality and product reliability – in this solution, these combine to optimize the total cost of ownership.

Main features

- Scalable power system up to 225 kW per cabinet and 450 kW paralleled
- Truly modular building blocks
- Cabling entry from top (or bottom in limited configurations)
- High efficiency rectifiers up to 96.2 %
- Enhanced monitoring and controlling with ORION controller

Applications

- Central offices
- Mobile telephone switching offices
- Data centers

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Technical specifications

Rectifier section	HVS 15000-336-5	HVS 15000-336-15
Rectifier module	HVR 15000-336	
Efficiency	92 %	
Install power (/ cab.)	75 kW	225 kW
Input voltage range	320 - 520 V _{RMS L-L} , (* linear power derating below until 260 V _{RMS L-L} (55% power))	
Input current (3 phase)	150 A _{RMSI}	3 x 150 A _{RMS}
Input fuse (recom.)	3 x 160 A	3 x (3 x 160 A)

AC input	
Mains connection	Cable lug interface
AC configuration	3L + PE
Nominal input voltage	400 VRMS (L-L)
Frequency range	45...66 Hz

DC interfaces	
Output voltage range	260-400 V _{DC} ; 378 V _{DC nom.}
Output current (max.)	225 A compact cabinet 1200 A distributed cabinet
Load distribution options	1 - 2 x MCCB 400 - 600 A 1 - 3 x MCCB 160 - 250 A 4 x MCB 32 A
Battery connection options	1 - 2 x MCCB 400 A 1 - 3 x MCCB 160 - 250 A
LVD (battery)	No

Ordering	
System configurator	3799968300
Rectifier HVR 15000-336	HVR-336/45A B-S

Control / Monitoring	
Controller	ORION
Local interface	Display, menu structure, touch panel
Remote monitoring	Alarm relays, LAN

Others	
Cabinet dimensions	2000x600x600 mm and 2200x600x600 mm
Weight	80 - 150 kg
Operating temperature	-5 - +40 °C
Humidity (relative)	95 % max, non cond.
Environment standard	ETSI EN 300 019-1-3
Safety standard	EN 62368-1
EMC standard	EN 300 386
Packing	Vertical for truck transport, Horizontal for air/ship