

Secure Power Always

Liebert CROSS Rack by Vertiv™ is a family of system static switches available in single-phase double-pole 16 A, 32 A and 63 A versions. Liebert CROSS ensures maximum reliability to critical loads by eliminating system failures caused by problems in distribution rather than by the failure of the power source itself. Double-pole operations ensure optimal flexibility for all the different types of electrical distributions.

Flexibility for Customised Solutions:

Liebert CROSS Rack has been designed to allow the hot swapping of all the solid-state components (power and control), dramatically reducing repair times while keeping the load powered. Liebert CROSS Rack's flexibility allows complete compatibility with customers' load and environment requirements. Standard features include priority mode operation allowing users to select the preferred power source. Liebert CROSS Rack features a fully redundant forced ventilation system with fan failure alarm, allowing mission-critical reliability whilst taking up a minimum amount of rack space (2 HU). Front-to-back ventilation ensures perfect compatibility with state-of-the-art cooling systems for Data Centres.

Leading Technology

A crucial function of Liebert CROSS is the Break Before Make transfer. This ensures that the two live feeds are never connected in parallel. The Liebert CROSS static switch also ensures that switching between the two power supplies occurs safely under both synchronous and asynchronous conditions relative to input waveforms.

Reliability

Employing a Liebert CROSS static switch adds another layer of security for mission critical loads. Ensure a redundant power supply by enabling controlled switching between two independent AC power supply sources.

Switching is performed whenever the line that supplies power to the load goes out of tolerance. The distribution downstream from a Liebert CROSS is not only protected against the failure of the sources, but also against any failure in upstream lines.

Communication

Voltage free contact ports are available in standard assembly versions and facilitate communication with installed power protection equipment. LED displays offer complete and easy interaction with Liebert CROSS Rack and provide detailed reports on the operational status of your equipment.

Applications

Liebert CROSS provides additional security for a wide range of mission critical applications including:

- Data centres /ISPs
- Call Centres
- Manufacturing Process Control
- Signalling Systems
- Transportation Signalling Systems
- Health Care.

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Simply supplying equipment will never deliver the level of business continuity our customers require. Vertiv offers a range of maintenance plans which will:

- Help deliver reliability to the load
- Extend the life of your power protection equipment
- Optimise your capital expenditure
- Provide risk management at a fixed cost
- Help to control your business environment
- Provide a pro active approach to disaster recovery.



Liebert CROSS Rack from 16 to 63 A

Liebert CROSS RACK (A) Specifications

TECHNICAL DATA

Number of switching poles	2
Nominal Voltage (V)	230 (220/240 selectable)
Nominal Voltage (V) - LV model	120 (110/115 selectable)
Input phases	1 + N
Nominal frequency (Hz)	50/60
Efficiency at nominal power %	≥99
Overload capacity	
for 10 minutes (%)	125
for 1 minutes (%)	150
for 0,50/606 seconds (%)	700
Fuses	
Temperature range (°C)	
Cooling	
Transfer Mode	
Transfer Time	
source failure, worst case (msec)	≤6
source failure, typical (msec)	≤4
Additional transfer delay for non-synchronous transitions (msec)	10 ± 2 (0 - 20 selectable)

DIMENSIONS AND WEIGHT

Height (mm)	430 (19")
Width (mm)	85 (2U)
Depth (mm)	700
UPS weight (kg)	23

ENVIRONMENT

Safety	CE marking, IEC/EN 62310-1
EMC Compatibility	IEC/EN 62310-2
Protection degree	IP20
Acoustic Noise (dBA)	<45