LIEBERT® CROSS CHASSIS/CABINET FROM 160 A TO 1250 A

Secure Power Always

Liebert CROSS by Vertiv™ is a family of system static switches available in Cabinet versions from 160 to 1250 A and in both three and four pole versions. Liebert CROSS Chassis is available in 160 to 450 A, in the four pole version only. Liebert CROSS ensures maximum reliability to critical loads by eliminating system failures that are caused by problems in distribution rather than from the failure of the power source itself.

Flexibility for Customised Solutions:

Liebert CROSS can be fully customised according to customers' load and environment requirements.
Options include priority mode operation, allowing users to select the preferred power source, selectable switching and tolerance features, galvanic isolation transformers, tripping coil switches, RFI filters, top cable entry connections and remote display units.

Leading Technology

A key 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 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.
It ensures a truly 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.
Distribution downstream from Liebert CROSS is not only protected from failure of the power sources, but also against any failure in upstream lines.

Communication

An RS232 serial port and a voltage-free contact port are available in standard assembly versions and facilitate communication with installed power protection equipment.
LED and LCD displays offer complete and easy interaction with installed equipment and provide detailed information 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
- Safety Systems and Emergency Lighting
- Life Support Systems.

Secure Power Always

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 Chassis/Cabinet from 160 A to 1250 A

Liebert CROSS CABINET Specifications

CROSS CABINET (A)	160	250	400	600	800	1250
Default Input Voltage (V)			400			
Nominal frequency (Hz) [selectable]			50/60			
Input phases			3+N			
Number of poles	3-4	3-4	3-4	3-4	3-4	3-4
Transfer Mode			Break Before Make Switching (No source overlap)			
Overload capacity						
for 10 minutes (%)			125			
for 1 minutes (%)			150			
for 10 seconds (%)			200			
for 1 seconds (A)	5300	5300	5300	5300	5300	9200
Transfer Time worst condition zero voltage source failure (msec)			≤ 5			
Static Switch Fault detector			Yes			
Ventilation	Natural	Natural	Natural	Forced		Forced
Width (mm)	620	620	820	1220	1220	1620
DIMENSIONS AND WEIGHT						
Height (mm)	1780	1780	1780	1780	1780	1780
Width (mm)	620	620	820	1220	1220	1620
Depth (mm)	830	830	830	830	830	830
Neutral sized (*in)	2	2	21.7	1.3	1	1.28
ENVIRONMENT AND STANDARDS						
Safety			CE marking, IEC EN 62310-1			
EMC Compatibility			IEC EN 62040-2 Class C3			
Degree of Protection			IP20			
Operating temperature (°C)			0-40			
Acoustic noise (dBA)	<45	<45	<45	<45	<73	<76

CROSS CHASSIS (A)	160	250	450
Default Input Voltage (V)		400	
Nominal frequency (Hz)		50-60	
Input phases		3+N	
Number of poles		4	
Transfer Mode (for Phases)		Break Before Make Switching (No source overlap)	
Overload capacity (without fuses)			
for 10 minutes (%)		125	
for 1 minutes (%)		150	
for 10 seconds (%)		200	
for 1 seconds (A)		5300	
Transfer Time worst condition zero voltage source failure (msec)		≤ 5	
Static Switch Fault detector		Yes	
Ventilation		Natural	
Neutral sized	2*In	2*In	1.7*In
DIMENSIONS AND WEIGHT			
Height (mm)		700	
Width (mm)		600	
Depth (mm)		1200	
Weight (kg) Main CROSS Cabinet Module	135	150	160
ENVIRONMENT AND STANDARDS			
Safety		IEC EN 62310-1 if used inside a cubicle compliant to safety standard IEC EN 62310-1	
EMC Compatibility		IEC EN 62040-2 Class C3	
Degree of Protection		(IP20 available on demand)	
Operating temperature (°C)		0-40	
Acoustic noise (dBA)		<45	

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