

CHLORIDE

Secure Power Always

CROSS Chassis/Cabinet from 160 A to 1250 A



STS Leaflet

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Chloride's family of CROSS static switches are available in Cabinet versions from 160 to 1250 A and in both three and four pole versions (four pole from 160 A to 600 A only). CROSS Chassis is available in 160 to 450 A, in the four pole version only. 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

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 CROSS is the Break Before Make transfer. This ensures that the two live feeds are never connected in parallel. The 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 Chloride 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 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.

Remote Diagnosis

The CROSS family is fully compatible with LIFE.net, Chloride's remote diagnostic tool. LIFE.net is the nearest you can get to having a Chloride engineer permanently on site. This service provides:

- Continuous real-time monitoring of your power protection equipment
- Automatic transmission of a daily status report
- Real-time diagnosis of all operational parameters
- A remote fix capability
- Monthly operational status report
- Technical advice
- Detailed operational history of the full service LIFE of the CROSS system
- Unique ETS function for trouble-shooting of the most common operating anomalies
- Power Quality Monitoring to effectively monitor power disturbance trends.

Applications

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. Chloride 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.

Contact your local Chloride sales office for more information.

Delegate your power management to the experts.

CROSS Cabinet (A)	160	250	400	600	800	1250	
TECHNICAL DATA							
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	3	
Transfer Mode	Break Before Make Switching (No source overlap)						
Overload capacity							
for 10 minutes (%)	125						
for 1 minute (%)	150						
for 10 seconds (%)	200						
for 1 second (A)	5300	5300	5300	5300	5300	9200	
Transfer Time source failure (msec)	≤ 5						
Neutral Transfer Mode (4-Pole only)	Configurable	Configurable	Configurable	Configurable	-	-	
Static Switch Fault detector	Yes						
Ventilation	Natural	Natural	Natural	Natural	Forced	Forced	
Neutral sized	2	2	1.7	1.3	1.7	1.7	
DIMENSIONS AND WEIGHT							
Dimensions (mm):							
Main CROSS Cabinet Module:	W	620	620	820	1220	1020	
	D	830	830	830	830	830	
	H	1780	1780	1780	1780	1780	
Switch module:	W	Integrated in main				820	1220
	D	CROSS Cabinet module				830	830
	H					1780	1780
Weight (kg):							
Main CROSS Cabinet Module:	450	450	570	590	275	547	
Switch module:					350	696	
ENVIRONMENT AND STANDARDS							
Safety	CE marking, IEC EN 62310-1						
EMC Compatibility	IEC EN 62040-2 Class C2						
Degree of Protection	IP20						
Operating temperature (°C)	0-40						
Acoustic noise (dBA)	<45	<45	<45	<45	<65	<65	

CROSS Chassis (A)	160	250	450
TECHNICAL DATA			
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 minute (%)	150		
for 10 seconds (%)	200		
for 1 second (A)	5300		
Neutral Transfer Mode	Configurable		
Transfer Time source failure (msec)	≤5		
Static Switch Fault detector	Yes		
Ventilation	Natural		
Neutral sized	1.7In		
DIMENSIONS AND WEIGHT			
Dimensions (mm):	W	700	
	D	600	
	H	1200	
Weight (kg):	135	150	160
ENVIRONMENT AND STANDARDS			
Safety	IEC EN 62310-1 if used inside an appropriate hosting cubicle		
EMC Compatibility	IEC EN 62040-2 Class C2		
Degree of Protection	IP00		
Operating temperature (°C)	0-40		
Acoustic noise (dBA)	<45		

The CROSS Chassis may differ from the one displayed in the front cover.

This publication is issued to provide outline information only and is not deemed to form any part of any offer and/or contract. The company has a policy of continuous product development and improvement, and we therefore reserve the right to vary any information without prior notice. MK44UKCROSS Rev. 9-11/2008

Chloride Systems
WORLD HEADQUARTERS

Via Fornace 30
40023 Castel Guelfo (BO)
Italy

T +39 0542 632 111
F +39 0542 632 120
E enquiries@chloridepower.com

CHLORIDE

www.chloridepower.com

Closest Chloride Contact in Australia:

Chloride Australia

Ground Floor
16 Giffnock Avenue, North Ryde
NSW 2113
Australia

T +61 2 9888 1266
F +61 2 9888 1966
E australia.sales@chloridepower.com

www.chloridepower.com.au

Closest Chloride Contact in UAE:

Chloride Middle East

Building 5, Office 104
Dubai Internet City - Dubai
UAE
PO Box 72536

T +971 4 391 3205
F +971 4 391 6803
E middleeast.sales@chloridepower.com

www.chloridepower.com/middle-east

Closest Chloride Contact in South East Asia:

CHLD Singapore Pte Ltd

2 Corporation Road
#03-07 Corporation Place
Singapore
618494

T +65 6481 4776
F +65 6481 0552
E singapore.sales@chloridepower.com

www.chloridepower.com.sg

Closest Chloride Contact in UK:

Chloride UK

George Curl Way
Southampton, Hampshire
SO18 2RY
United Kingdom

T +44 (0) 23 8061 0311
F +44 (0) 23 8061 0852
E uk.enquiries@chloridepower.com

www.chloridepower.co.uk

Closest Chloride Contact in USA:

Chloride

27944 North Bradley Road
Libertyville
IL 60048
USA

T +1 847 816 6000 / +1 800 327 8801
F +1 847 680 5124
E usa.info@chloridepower.com

www.chloridepower.com/usa

Closest Chloride Contact in Thailand:

Chloride Thailand

Panjathani Tower, 20th Floor
127/25 Nonsee Road, Chongnonsee,
Yannawa, Bangkok 10120
Thailand

T +662 296 9800
F +662 681 0109
E thailand.sales@chloridepower.com

www.chloridepower.com/th

Closest Chloride Contact in Vietnam:

Chloride Vietnam

Unit 1708, 17th Floor, Gemadep Tower
06 Le Thanh Ton Street, Ben Nghe Ward,
District 1, Ho Chi Minh City
Vietnam

T +84 8 255 6737
F +84 8 255 6800

www.chloridepower.com/vn

For a full list of contacts please visit our website at www.chloridepower.com



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