

MASTERGUARD GmbH
P.O. Box 2620
D-91014 Erlangen
Tel. +49-180-5 32 37 51
Fax +49-9131-6 300 300
info@masterguard.de



**MASTER
GUARD**

www.masterguard.de



MIK44.LOUKCRSRMG

CROSS Rack

16 A, 32 A and 63 A



CROSS Rack 16 A, 32 A and 63 A

The Range

MASTERGUARD's CROSS Rack family of system static switches are available in single-phase double-pole 16 A, 32 A and 63 A versions.

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. Please contact your local MASTERGUARD representative for more information.

Flexibility for Customized Solutions

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.

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.

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 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 the two power supplies occurs safely under both synchronous and asynchronous conditions relative to input waveforms.

Reliability

Employing a MASTERGUARD 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 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 CROSS Rack and provide detailed reports on the operational status of your equipment.

Applications

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

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

Secure Power Always

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

- Help deliver reliability to the load
- Extend the life of your power protection equipment
- Optimize 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 MASTERGUARD sales office for more information.

Delegate your power management to the experts.

CROSS Rack (A)**16****32****63****TECHNICAL DATA**

Number of switching poles	2
Nominal Voltage (V)	230 (220/240 selectable)
Input phases	1 + N
Nominal frequency (Hz)	50
Efficiency at Pn (%)	>98
Overload capacity	
for 10 minutes (%)	125
for 1 minute (%)	150
for 0,6 seconds (%)	700
Fuses	660 Vac, 100A fast
Temperature range (°C)	0 - 40
Cooling	Forced, fully redundant, front to back
Transfer Mode	Break-Before- Making Switching (No source overlap)
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

Width (")	19"
Depth (mm)	700
Height (mm)	2U
Weight (kg)	23

ENVIRONMENT

Safety	CE marking, IEC/EN 62310-1
EMC Compatibility	IEC/EN 62040-2, Class C2
Protection degree	IP21
Acoustic Noise (dBA)	<45
MTBF	>800 kh
MTTR	<1 min