



Multi Switch



16 A



Plug & Play



HIGHLIGHTS

- Redundant power supply
- Load protection
- Versatile to use

The Riello UPS Multi Switch is a high availability and versatile intelligent switch that provides redundant power to connected equipment with two AC input sources. The Riello UPS Multi Switch supplies power to the connected loads from a primary mains source. If that primary source becomes unavailable, the Riello UPS Multi Switch automatically transfers loads to the secondary source. The transfer time from one source according the ITI (CBEMA) chart does not impact the operation of the connected equipment as the switching occurs safely between the two input sources regardless of any phase differences. The Riello UPS Multi Switch monitors the current and provides warnings when power consumption draws near the maximum rating which helps prevent downtime to the equipment.

Riello UPS Multi Switch has 8 independent IEC 10 A outlets allowing several devices can be plugged directly into the Rack without the need for an additional Rack PDU. The units have a connectivity slot which allows for LAN connection and remote management through PowerShield³ software, Web interface, SNMP,

or SSH which makes the Riello UPS Multi Switch an ideal device for the IT manager who needs flexibility and protection for their IT equipment.

Multi Switch provides installations with power supply continuity. Its operating principle ensures higher reliability than a single UPS, (with or without its own internal bypass).

Operating principle

Multi Switch provides direct distribution of eight 10 A IEC outlets in a system with two input powerlines (two mains inputs, or two UPS). Multi Switch is able to connect to either of the two input power lines, whilst simultaneously monitoring the power uptake.

Protection against load faults

If one of the loads fails (e.g. short circuit), Multi Switch disconnects the group of sockets where the load is connected, thus preventing other loads from being switched off (i.e. in the event of poor discrimination of the protection devices).

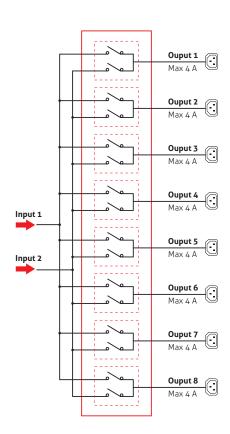
Protection against power supply faults

If one of the two power sources falls outside tolerance levels, Multi Switch will transfer the load to the second powersource (switching is instantaneous if the two sources are in phase). Multi Switch units switch power with no impact to IT equipment. Depending on the ITI Curve, typical power supplies will operate 20 ms after AC voltage drops to zero. The IEEE 1100-1999 standard also references the ITI

curve. The SSI (Server System Infrastructure) standard recommends a hold-up time for power supplies to be a minimum of 21 ms for a voltage range of 100-240 V.

Multi Switch units switch sources under these industry standard times.

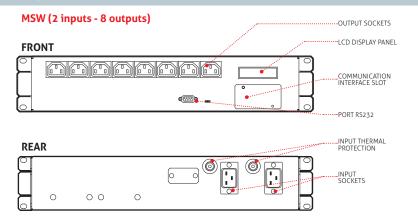
The switching time includes the time for the built-in intelligence to determine whether the voltage and frequency are in range. Any point



Features

- Full protection for loads against mains and load failures
- Redundant power supply
- Versatile to use: Multi Switch can bepowered with 2 different power supplies (including 2 UPS of different sizes/types)
- 19" cabinet installation
- · LCD Display panel
- Can be connected to PowerNetGuard supervision software
- No signal connection between the Multi Switch and the power sources orloads is necessary
- Slot for communications boards: the optional network card allows for remote in network connectivity, and management through HTTP, SNMP, and SSH protocol.

DETAILS



OPTIONS

SOFTWARE	
PowerNetGuard	
Towerrectadara	
ACCESSORIES	
NETMAN 204	

MODELS	MSW	
NOMINAL CURRENT (A)	16	
INPUT		
Nominal voltage - sources S1/S2	230 Vac single-phase + N	
Voltage tolerance	180-276 Vac (selectable)	
Switched input phases	ph+N (two poles)	
Nominal frequency	50/60 Hz	
Input sockets	2 IEC 320 (16 A)	
OPERATING SPECIFICATIONS		
Transfer type	"Break Before Make" (no overlapping sources)	
Transfer time following source failure	< 8 msec (S1/S2 synchronised)	20 msec (S1/S2 non synchronised)
ОИТРИТ		
Nominal voltage	choice of one of the two input power sources	
Max. load for each output	4 A	
Output sockets	8 IEC 320 10 A	
ENVIRONMENTAL SPECIFICATIONS		
Efficiency at full load	> 99%	
Noise at 1 m from front (from 0 to full load)	< 35 dBA	
Storage temperature	-10 °C up to +50 °C	
Operating temperature	0 °C - 40 °C	
Relative humidity	90% non-condensing	
Max. installation height	1000 m at nominal power (-1% power for every 100 m above 1000 m) - Max 4000 m	
Reference standard	EN 62310-1 (safety) EN 62310-2 (electro-magnetic compatibility)	
INFO FOR INSTALLATION		
Weight (kg)	10	
Dimensions (WxDxH) (mm)	19" x 360 x 2U	
Colour	RAL 5004	
IP rating	IP 20	

Communications



RS232 / Slot for communication interface