

Multi Switch ATS



Plug & Play
installation

1:1 16-30 A Automatic Transfer Switch

HIGHLIGHTS

- **Redundant power supply**
- **Load protection**
- **Versatile to use**

Riello UPS Multi Switch ATS is a high availability intelligent switch that provides redundant power to connected equipment with two AC input sources. Multi Switch ATS supplies power to the connected loads from a primary mains source. If that primary source becomes unavailable, Multi Switch ATS automatically transfers loads to the secondary source. The transfer time from one source according to 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. Multi Switch ATS monitors the current and provides warnings when power consumption draws near the maximum rating which helps prevent downtime to the equipment. Multi Switch ATS 16 A has 8 IEC 10 A and 1 IEC 16 A outputs, whilst Multi Switch ATS 30 A has 4 IEC 10 A, 1 IEC 16 A outputs and a terminal board allowing several devices to be plugged directly into the ATS without the need for an additional 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 Multi Switch ATS an ideal device for the IT manager who needs flexibility and protection for their IT equipment. Multi Switch ATS 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 ATS provides direct distribution of eight 10 A IEC outputs or one 16 A IEC output in the 16 A model, four 10 A IEC outputs one 16 A IEC output or a terminal board in the 30 A model in a system with two input power lines (two mains inputs, or two UPS). Multi Switch ATS is able to connect to either of the two input power lines, whilst simultaneously monitoring the power uptake.

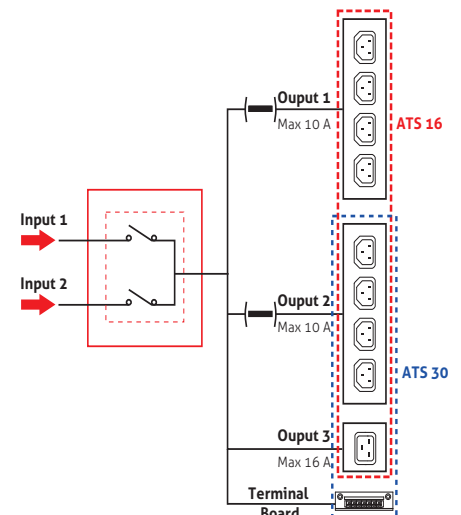
PROTECTION AGAINST LOAD FAULTS

If one of the loads fails (e.g. short circuit), the Multi Switch ATS 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 ATS will transfer the load to the second

power source (switching is instantaneous if the two sources are in phase). Multi Switch ATS 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 ATS 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 of failure in the electronics does not cause a drop out of the output voltage because the unit

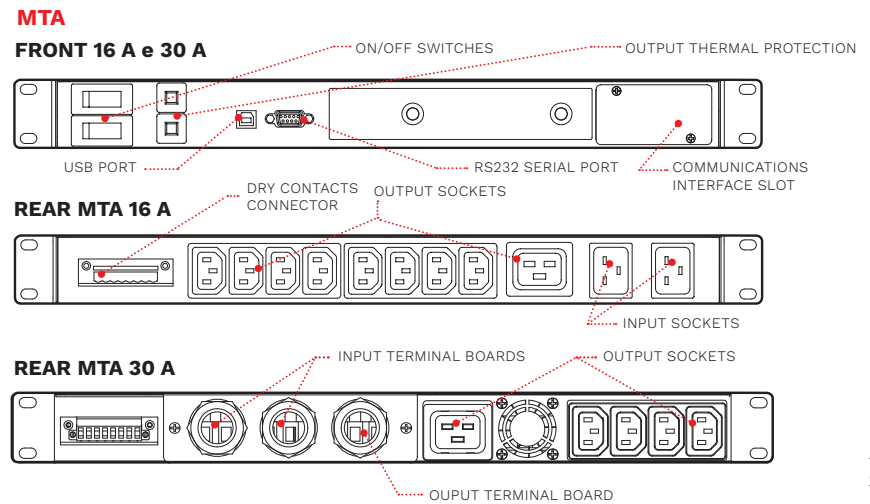


incorporates redundancy of its electronic circuitry to avoid fault tolerance.

FEATURES

- Full protection for loads against mains and load failures;
- Redundant power supply;
- Versatile to use: Multi Switch ATS can be powered with 2 different power supplies (including 2 UPS of different sizes/types);
- 19" cabinet installation;
- Display panel;
- Can be connected to PowerNetGuard supervision software;
- No signal connection between the Multi Switch ATS and the power sources or loads is necessary;
- Compatible with PowerShield³ software 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	ACCESSORIES
PowerShield ³	NETMAN 204
	MULTICOM 302
	MULTICOM 352

MODELS	MTA 16	MTA 30
NOMINAL CURRENT (A)	16	30
INPUT	230 single-phase + N	
Rated voltage - sources S1/S2 [V]	180-276 (selectable)	
Voltage tolerance [V]	180-264 (selectable)	
Switched input phases	ph+N (two poles)	
Rated Frequency [Hz]	50 / 60	
Input sockets	2 IEC 320 (16 A)	Terminal boards
OPERATING SPECIFICATIONS	"Break Before Make" (no overlapping sources)	
Transfer type	<8 msec. (S1/S2 synchronised) 20 msec. (S1/S2 non synchronised)	
Transfer time following source failure		
OUTPUT	choice of one of the two input power sources	
Rated voltage	10 on IEC-320 C13 - 16 on IEC-320 C19	
Max. load for each output [A]	4+4 IEC-320 C13 (10 A) + 1 IEC-320 C19 (16 A)	
Output sockets	30 A on Terminal board and 4 IEC-320 C13 (10 A) + 1 IEC-320 C19 (16 A)	
ENVIRONMENTAL SPECIFICATIONS	>99%	
Efficiency @ full load	<35	
Noise at 1 m from front (from 0 to full load) [dBA]	-10 °C up to +50 °C	
Storage temperature	0 °C - +40 °C	
Ambient temperature for the UPS	5-95% non-condensing	
Range of relative humidity	1000 m at nominal power (-1% power for every 100 m above 1000 m) - Max 4000 m	
Max. installation height	EN 62310-1 (safety) EN 62310-2 (electro-magnetic compatibility)	
Reference standard		
OVERALL SPECIFICATIONS	5	
Weight [kg]	19"x330x1U	
Dimensions (WxDxH) [mm]	RAL 5004	
Colour	IP20	
IP rating	RS232 / USB / Slot for communication interface / Relay contacts port	
Communications		

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