



Two ac inputs ~ one ac output UPS bypass switch Compact

ARm model	
1000	
15 amps	
1750 VA	
1750 watts	
120 volts	
1000-FAA	
15 amps	
1750 VA	
1750 watts	
120 volts	

Automatic Redundancy Module

TSi Power's ARm-1000 redundancy module automatic bypass system is recommended when no downtime from power outage is tolerated. Internet service providers, critical servers and telecom equipment, and export markets with bad power would find this technology valuable.



Typical ARm applications

Designed for situations where reliability and predictability matter to the enterprise. Examples: telecommunications equipment, export markets, file servers, routers, digital copiers, office machines, industrial controllers (PLC), automatic test equipment (ATE), laboratory analyzers and other sensitive, specialized microprocessor-based equipment.

Note: Both power sources Must be in phase. **If cannot be guaranteed, see the ATs-1000.**

Key ARm benefits

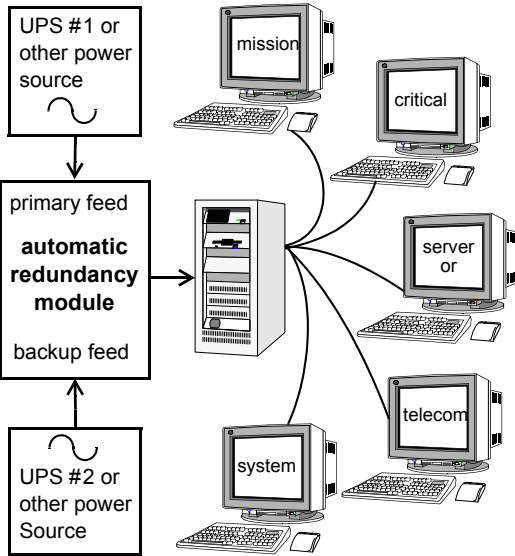
The ARm unit will provide uninterrupted ac to your load even in the event of UPS failure. ARms your critical equipment against extended power outages and catastrophic system shutdowns caused by accidental circuit breaker trips, UPS overload conditions, weak or old UPS batteries, routine and preventive maintenance of UPS, accidental UPS shut-down, loose power cords, or UPS failure. The ARm Series permits daisy chaining with any sine wave in-phase UPS, providing unlimited redundancy using any combination of independent (separate) ac circuits, UPS systems, generator-backed ac circuits, etc.

Key ARm Series features

- Enables redundant UPS, backup generators or other ac power sources to be used for a single load.
- Less than 10ms transfer time from source A to source B.
- Low cost
- LED status indicators
- DB9 communications interface
- Audible alarms with enable/disable switch

How the ARm works

The ARm is fed by two ac power sources. When the primary power source detector circuit senses a loss of power on that circuit, a relay immediately switches the load over to the backup power source feed in less than 10 ms. This is fast enough to be invisible to computer switch-mode power supplies.



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Automatic redundancy module



Rear view
ARm-1000

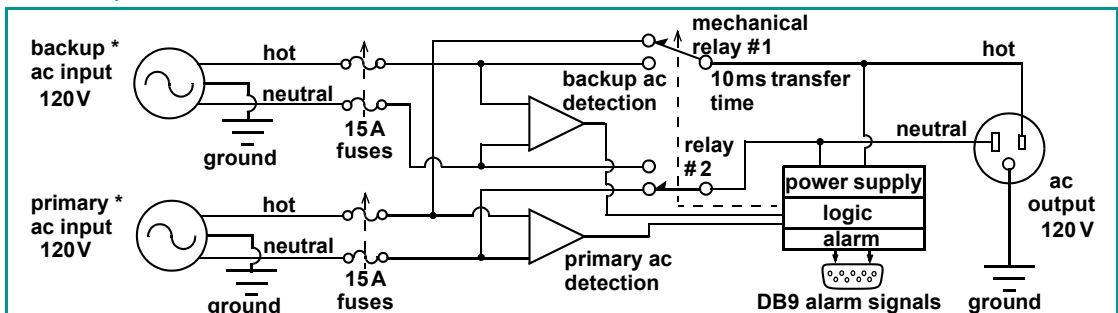
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Specifications	ARm-1000	ARm-1000-FAA
Electrical		
Capacity in VA (watts)	1750 VA (1750W)	1750 VA (1750W)
Switching technology	Fast operating/releasing relays	
Inputs		
Nominal voltage	120 volts ac, single phase	
Primary ac voltage	100 to 135 volts ac	
Backup ac voltage	100 to 135 volts ac	
Frequency range	60 Hz +/-5%	
Over-current protection	Both primary and backup ac are protected by fuses	
Fuse ratings	15 amps	
Typical transfer time	Less than 10ms, primary to back-up and back-up to primary	
Input/output wire size	2.5mm ² (14 AWG) recommended	
Ac inputs (two)	1.8m(6 ft.) cords and 5-15P plugs	Pri: 6' cord/plug; Backup: terminals
Output		
Nominal voltage	120 volts ac, single phase	
Load regulation	Better than 2% from no load to full load	
Power efficiency	98% or higher	
Ac receptacles	Four NEMA 5-15R output receptacles (-FAA also has extra terminal block)	
Indicators	Green LED for primary ac presence, yellow LED for backup ac presence, flashing red LED for loss of primary or backup ac.	
Audible alarms	Buzzer beeps when loss of primary or backup ac occurs.	
Audible alarm switch	Audible alarm (buzzer) and alarm enable/disable switch	
Alarm contacts interface	A rear-mounted DB-9 connector sends loss of primary ac and loss of backup ac. (Pins 1 and 5 are used).	
Physical		
Dimensions	254 mmW x 203 mmD x 76 mmH (10" wide x 8" deep x 3.2" high)	406 mm W x 304 mm D x 76 mm H (16" wide x 12" deep x 3.2" high)
Weight	2.7 kg (6 lbs)	6.75 kg (15 lbs)
Rack mount options	*Front mount kits: For a 19" rack: # MK-5019A For a 23" rack: # MK-5023A For a 24" Rack: # MK-5024A	*Center mount kits: For a 19" rack: # MK-5019F For a 23" rack: # MK-5023F For a 24" rack: # MK-5024F
Note: For the ARm-1000 there is only one Front rack-mount kit available: # MK-1019A * Italicized kits Are For the ARm-1000-FAA		
Environmental		
Ambient temperature	0° to +40°C (32° to +104°F). 10 to 90% Relative humidity (non-condensing)	
Warranty		
Warranty	Two year limited warranty, parts and labor.	



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ARm system architecture



* Note: Primary and back-up ac must be in phase. Otherwise, relay contacts may be damaged.