

1-Phase ATS

110V / 208V / 230V



FC CE RoHS REACH

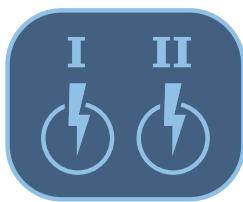
Smarter Design ▪ Faster Delivery ▪ Better Performance

Key Benefit



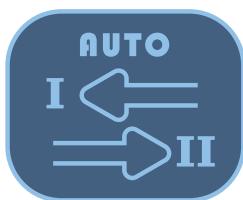
Input Switching Locally or Remotely Over IP

Local power input switching is essential, especially for conducting maintenance in the data center. Alternatively, InfraPower intelligent ATS enables users to switch power input over IP, saving manpower and providing a prompt way to switch power input.



Power Redundancy for Single Corded Devices

Most data centers provide power source redundancy in order to ensure that critical devices have no power downtime issue. Some rackmount IT devices, however, are not designed with power redundancy. For single-corded devices, InfraPower intelligent ATS is a perfect fit to provide power fallback. It includes dual power inlets, for connection to both a primary power source and a redundant, secondary power source.



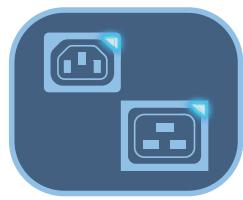
Auto Switching Relay for Seamless Power Transfer

InfraPower ATS offers a simple but reliable solution for automatically sensing power loss and seamlessly switching to a secondary power source. The power source transfer time is seamless to the connected equipment, making sure that the switching occurs safely between the two input power sources. After switching to a backup power source, it can also switch power back to the primary input after power has been restored.



Remote Monitoring Over IP

InfraPower intelligent ATS provides a real time monitoring on Amp, Volt and kWh. Hence, it helps users with capacity planning and improving the overall power efficiency of the data center.



Models with Outlet Switching plus Outlet Monitoring

Both WS & WSi ATS series allow outlet switching on / off remotely over network IP, whilst WSi provides outlet monitoring features.



Extensive Selection & Quick Delivery

The leading edge ATS solution provides the widest range of configurations with shortest lead-times in the market :

It offers 110V / 208V / 230V models with input range from 10A to 32A, outlet number from 1 to 24 and variety of outlet types (e.g. NEMA, C13, C19, UK, Schuko, French, etc).

Custom configurations are available upon request.

Main	
Amp	15.0
A	15.0
kWh	0.62
Volt	220.0

Automatic
Transfer Switch



Primary

Secondary

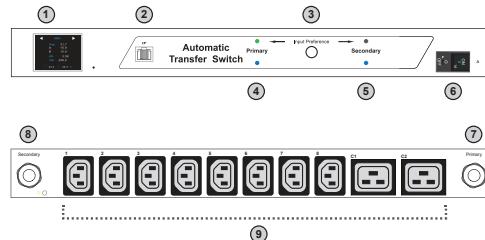
Input Preference

Secondary

Hardware

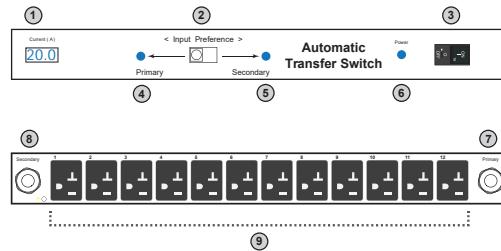
Most data centers provide power source redundancy in order to ensure critical devices have no power related downtime. Many rackmount IT devices, however, are not designed to take advantage of power redundancy. For single-corded devices, the InfraPower ATS is a perfect fit to provide power failover. It includes dual power inlets for connection to both a primary power source and a redundant, secondary power source.

Intelligent ATS Over IP



- 1 2.0" color LCD
- 2 IP Port
- 3 Input Preference Switch
- 4 Power LED - primary input
- 5 Power LED - secondary input
- 6 Circuit Breaker
- 7 Primary Input attached with 3M cord & inlet plug
- 8 Secondary Input attached with 3M cord & inlet plug
- 9 Outlets

Metered ATS



- 1 Local Current Meter
- 2 Input Preference Switch
- 3 Circuit Breaker
- 4 Power LED - primary input
- 5 Power LED - secondary input
- 6 Power LED - outlets
- 7 Primary Input attached with 3M cord & inlet plug
- 8 Secondary Input attached with 3M cord & inlet plug
- 9 Outlets

ATS Series	Metered	Monitored	Switched	
	MD	W	WS	WSi
Outlet Level Measurement Over IP				✓
Outlet ON / OFF Switch Over IP			✓	✓
Input & Circuit Monitoring Over IP		✓	✓	✓
Input Switching Over IP		✓	✓	✓
Input Switching Locally	✓	✓	✓	✓
Local Meter Monitoring	3-digit RMS	2.0" Color Touch	2.0" Color Touch	2.0" Color Touch
Transfer Time	10 - 16ms	10ms	10ms	10ms
Power Source Switching Notification		✓	✓	✓
Alarm Alert		✓	✓	✓
Reporting & Logs		✓	✓	✓
Free Management Software		✓	✓	✓
Web Based GUI		✓	✓	✓
SNMP Capability V2 / V3		✓	✓	✓
Single Circuit & Dual Circuit Models	✓	✓	✓	✓
Hydraulic-magnetic Circuit Breaker (MCB)	✓	✓	✓	✓
Mounting Bracket	✓	✓	✓	✓
1-Phase : 230V / 208V / 110V	✓	✓	✓	✓
Outlet Type : US NEMA / C13 / C19 / UK / SCH / FR	✓	✓	✓	✓
IEC309 16A / 32A	✓	✓	✓	✓
L620R / L630R	✓	✓	✓	✓
Outlet # : 1 - 24	✓	✓	✓	✓
Custom ATS on Request	✓	✓	✓	✓

Software

Remote Management Over IP

ATS remote management helps reducing manpower and hence improving uptime and productivity. It also benefits users with capacity planning and increasing the overall efficiency of the data center. InfraPower intelligent ATS offers 3 kinds of remote management solutions for users' selection.



Free Download



Built-in



via SNMP



Free Management Software IPM-04

IPM-04 is the free, powerful and user friendly management software provided with intelligent ATS. The Administrator can remotely manage the ATS via the web browser. It provides power input switching, ATS monitoring, alarm and reporting functions. The Windows based software consolidates management of max. 50 ATSS. Up to 5 concurrent user access is bundled in order to achieve the demand of multi-user requirements in data center operations.

Single circuit ATS - Monitoring & Input Switching

Dual circuit ATS - Monitoring & Input Switching

Reporting / Log

ATS Log									
Date	Time	Model	Status	Circuit A	kWh	Circuit B	kWh	Total	kWh
2016/04/25	00:00:00	ATS-H18C13 / 4C19-32A-W_EN	Connected	0.31	0.00	0.29	0.00	0.31	0.00
2016/04/24	00:00:01	ATS-H18C13 / 4C19-32A-W_EN	Connected	0.29	0.00	0.29	0.00	0.29	0.00
2016/04/23	00:00:00	ATS-H18C13 / 4C19-32A-W_EN	Connected	0.17	0.00	0.17	0.00	0.17	0.00

Daily kWh log - ATS

Date	Time	Model	Status	Circuit A	kWh	Circuit B	kWh	Total	kWh
2016/04/25	00:00:00	ATS-H18C13 / 4C19-32A-W_EN	Connected	0.31	0.00	0.29	0.00	0.31	0.00
2016/04/24	00:00:01	ATS-H18C13 / 4C19-32A-W_EN	Connected	0.29	0.00	0.29	0.00	0.29	0.00
2016/04/23	00:00:00	ATS-H18C13 / 4C19-32A-W_EN	Connected	0.17	0.00	0.17	0.00	0.17	0.00

Last 2000 log records.

Web-based GUI

A web-based GUI is integrated with our intelligent ATS. It is ideal for some users who simply require the power monitoring and input switching over IP.

3rd Party DCIM via SNMP

Nowadays, many data centers apply the DCIM (Data Center Infrastructure Management) in order to centralize the management for monitoring power, cooling and environmental factors across facilities and IT systems. InfraPower intelligent ATS supports SNMP integration and hence user can remotely manage the ATS via their DCIM.

Functions & Features	IPM-04	GUI	SNMP
No. of ATS support	50	1	
Concurrent users	5	1	
Input switching over IP	✓	✓	
Power source switching notification	✓	✓	
Input sources detection	✓	✓	
Individual outlet switch on / off (WS & WSi)	✓	✓	
Outlet level measurement (WSi)	✓	✓	
Energy consumption (kWh) monitoring	✓	✓	
Apparent power (kVA) monitoring	✓	✓	
Power factor measurement	✓	✓	
Voltage (Volt) monitoring	✓	✓	
Aggregate current (Amp) monitoring	✓	✓	
Circuit breaker monitoring	✓	✓	
Alarm alert	✓	✓	
Reporting & logs	✓		

Remote Management by 3rd Party DCIM



Hardware Specifications

Electrical		MD	W / WS / WSi
Nominal input voltage		110V / 208V / 230V	
Acceptable input voltage		$\pm 10\%$ nominal	
Input frequency		50 / 60Hz	
Inlet		L5-30P / L5-20P / 5-15P / L6-30P / L-620P / C14 / C20 / 60309 UK / Open-end	
Outlet		Nema / L620R / L630R / C13 / C19 / 60309 UK / Schuko / French	
Local meter		3-digit RMS current meter	
Accuracy		$\pm (3\% \text{ of reading} + 5 \text{ digits})$	
Overload protection		Hydraulic-magnetic Miniature Circuit Breaker (MCB)	
Transfer time		10 - 16ms typical	
Electrical endurance		1×10^5 operations	

Physical		MD	W	WS / WSi
1U	Product (W x D x H)	442 x 270 x 43.5 mm	442 x 300 x 43.5 mm	442 x 450 x 43.5 mm
	Packing (W x D x H)	540 x 540 x 150 mm	500 x 540 x 150 mm	500 x 540 x 150 mm
	Net weight	4.6 kg / 10.1 lb	5.7 kg / 12.54 lb	7.0 kg / 15.40 lb
	Gross weight	5.1 kg / 11.2 lb	6.2 kg / 13.64 lb	7.5 kg / 16.50 lb
2U	Product (W x D x H)	442 x 270 x 87.5 mm	442 x 300 x 87.5 mm	442 x 450 x 87.5 mm
	Packing (W x D x H)	540 x 540 x 150 mm	550 x 550 x 150 mm	550 x 550 x 150 mm
	Net weight	6.5 kg / 14.3 lb	7.6 kg / 16.72 lb	9.5 kg / 20.90 lb
	Gross weight	7.0 kg / 15.4 lb	8.1 kg / 17.82 lb	10.0 kg / 22.00 lb
Chassis color		Dark		
Chassis materials		Steel		

Environmental	
Operating temperature	-5 to 60°C degree (23 to 140°F)
Storage temperature	-25 to 65°C degree (13 to 149°F)
Operating humidity	0~95%, non-condensing
Storage humidity	0~95%, non-condensing

Compliance	
EMC	CE / EMC
Safety	LVD
ISO	9001 / 14001
Environment	RoHS3 & REACH

**Hydraulic-magnetic MCB
Bundled**



110V / 208V
15A - 1-pole 16A MCB x 1
20A - 1-pole 20A MCB x 1
30A - 1-pole 16A MCB x 2

230V
10A - 1-pole 10A MCB x 1
13A - 1-pole 13A MCB x 1
16A - 1-pole 16A MCB x 1
20A - 1-pole 20A MCB x 1
32A - 1-pole 16A MCB x 2

Safety Regulatory :
UL / cUL / TUV / CE

**Mounting Bracket
Bundled**

MD ATS (270mm deep)
W ATS (300mm deep)

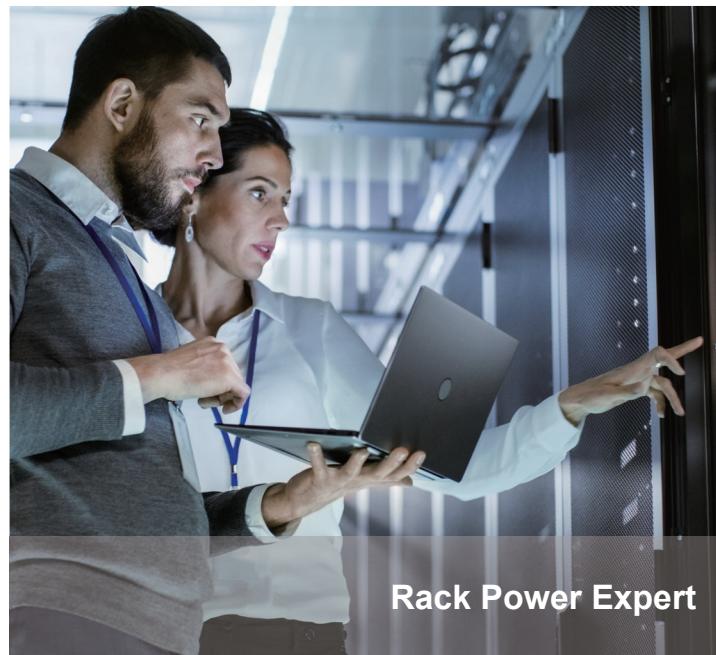
WS / WSi ATS (450mm deep)

Founded in 1995, Austin Hughes is a design and manufacturing group that offers a broad range of solutions based around 19-inch rack mount technology. These solutions include UltraRack IT server rack, InfraRack smart rack, InfraPower rack PDU & ATS, InfraCool rack cooling systems, InfraGuard rack sensors and peripherals, InfraSolution rack access control and CyberView rack LCD KVM switches. We also offer industrial & commercial IT products, such as UltraView professional displays and Mini IP solutions.

Austin Hughes has ISO14001 and ISO9001 approved design, manufacturing, assembly, and test facilities. We support a worldwide customer base through our global locations.



As a leading global IT manufacturer, Austin Hughes provides TAA-compliant data center solutions, manufactures and assembles products in strategic TAA-certified locations.



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