InfraPower®

1-Phase ATS

110V / 208V / 230V









FC CE RoHS REACH







Smarter Design ▪ Faster Delivery ▪ Better Performance

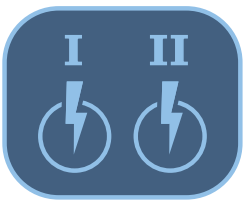
AUSTIN HUGHES®

Key Benefit



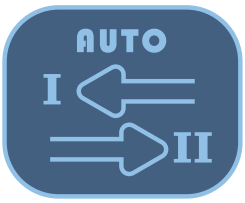
Input Switching Locally or Remotely Over IP

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.



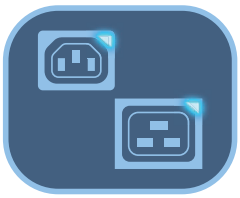
Auto Switching Relay for Seamless Power Transfer

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

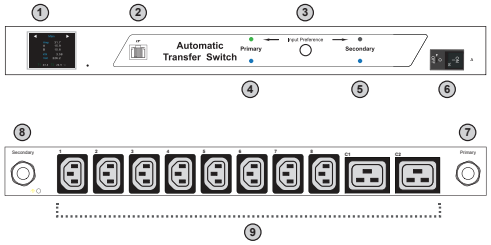
The leading edge ATS solution provides the widest range of configurations with shortest lead-times in the market :
It offers 110V / 208V / 230V models with input range from 10A to 32A, outlet number from 1 to 24 and variety of outlet types (e.g. NEMA, C13, C19, UK, Schuko, French, etc).
Custom configurations are available upon request.

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

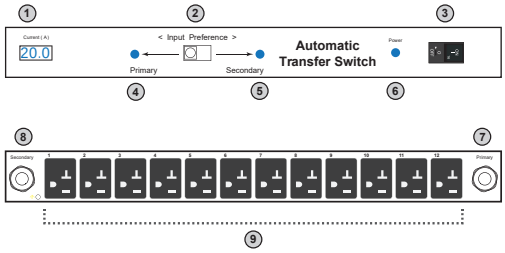




1. 2.0" color LCD
2. IP Port
3. Input Preference Switch
4. Power LED - primary input
5. Power LED - secondary input
6. Circuit Breaker
7. Primary Input attached with 3M cord & inlet plug
8. Secondary Input attached with 3M cord & inlet plug
9. Outlets

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

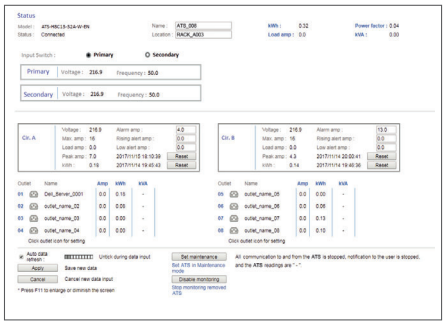
Free Management Software IPM-04

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.

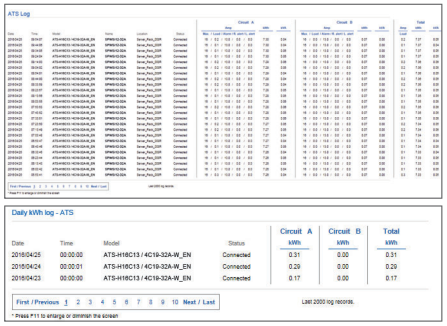
Single circuit ATS - Monitoring & Input Switching



Dual circuit ATS - Monitoring & Input Switching



Reporting / Log



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	Remote Management by 3rd Party DCIM
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	✓		



Hardware Specifications

Electrical	MD	W / WS / WSi
Nominal input voltage	110V / 208V / 230V	
Acceptable input voltage	±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	Field replaceable 2.0" color LCD
Accuracy	± (3% of reading + 5 digits)	Billing grade meter accuracy within ± 1%
Overload protection	Hydraulic-magnetic Miniature Circuit Breaker (MCB)	
Transfer time	10 - 16ms typical	10ms typical
Electrical endurance	1 x 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

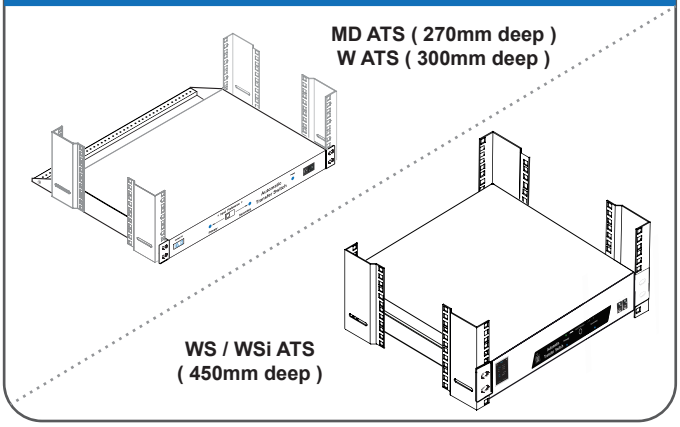


Safety Regulatory :
UL / cUL / TUV / CE

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

Mounting Bracket
Bundled



MD Series - Local Metering

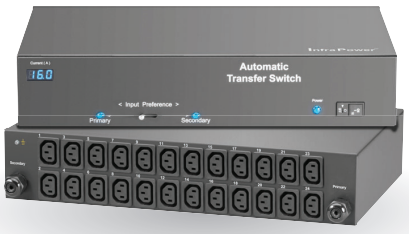
1U Metered ATS - Single Circuit		Amp		
Outlets	**Model**	**110V**	**208V**	**230V**
NEMA x 10 NEMA x 12	ATS-H10US ATS-H12US	15A / 20A		
C13 x 8 C13 x 10 C13 x 12 C19 x 6 C19 x 8 C13 x 8 + C19 x 1 C13 x 8 + C19 x 2	ATS-H8C13 ATS-H10C13 ATS-H12C13 ATS-H6C19 ATS-H8C19 ATS-H8C13 / 1C19 ATS-H8C13 / 2C19		20A	10A / 16A / 20A
IEC309 16A x 1	ATS-H1EN16A			16A
L620R x 1	ATS-H1L620R		20A	
UK x 8	ATS-H8UK			10A / 13A / 16A / 20A

1U Metered ATS - Single Circuit



2U Metered ATS - Single Circuit		Amp		
Outlets	**Model**	**110V**	**208V**	**230V**
NEMA x 16 NEMA x 20 NEMA x 24	ATS-H16US ATS-H20US ATS-H24US	15A / 20A		
C13 x 16 C13 x 20 C13 x 24 C19 x 10 C19 x 12 C13 x 16 + C19 x 2 C13 x 16 + C19 x 4	ATS-H16C13 ATS-H20C13 ATS-H24C13 ATS-H10C19 ATS-H12C19 ATS-H16C13 / 2C19 ATS-H16C13 / 4C19		20A	10A / 16A / 20A
Schuko x 8 French x 8	ATS-H8SCH ATS-H8FR			10A / 16A / 20A

2U Metered ATS - Single Circuit



2U Metered ATS - Dual Circuit		Amp		
Outlets	**Model**	**110V**	**208V**	**230V**
NEMA x 16 NEMA x 20 NEMA x 24	ATS-H16US ATS-H20US ATS-H24US	30A		
C13 x 16 C13 x 20 C13 x 24 C19 x 8 C19 x 10 C19 x 12 C13 x 16 + C19 x 2 C13 x 16 + C19 x 4	ATS-H16C13 ATS-H20C13 ATS-H24C13 ATS-H8C19 ATS-H10C19 ATS-H12C19 ATS-H16C13 / 2C19 ATS-H16C13 / 4C19		30A	32A
L630R x 1	ATS-H1L630R		30A	
IEC309-16A x 2 IEC309-32A x 1	ATS-H2EN16A ATS-H1EN32A			32A

2U Metered ATS - Dual Circuit



** Customization available on request

230V ATS

Inlet	Amp	Cordset	
		mm²	length
60309	32A	4	3 M
Open end	20A	2.5	3 M
60309 C20	16A	1.5	3 M
BS1363 UK	13A	1.5	3 M
C14	10A	1.5	3 M

Outlet	C13	C19	UK	SCH	FR

208V ATS

Inlet	Amp	Cordset	
		AWG	length
L6-30P	30A	10	10 FT
L6-20P	20A	12	10 FT

Outlet	C13	C19

110V ATS

Inlet	Amp	Cordset	
		AWG	length
L5-30P 5-30P	30A	10	10 FT
L5-20P 5-20P	20A	12	10 FT
5-15P	15A	14	10 FT

Outlet	NEMA

W Intelligent Series - Circuit Monitoring

1U Intelligent ATS - Single Circuit		Amp		
Outlets	**Model**	**110V**	**208V**	**230V**
NEMA x 10 NEMA x 12	ATS-H10US-W ATS-H12US-W	15A / 20A		
C13 x 8 C13 x 10 C13 x 12 C19 x 6 C19 x 8 C13 x 8 + C19 x 1 C13 x 8 + C19 x 2	ATS-H8C13-W ATS-H10C13-W ATS-H12C13-W ATS-H6C19-W ATS-H8C19-W ATS-H8C13 / 1C19-W ATS-H8C13 / 2C19-W		20A	10A / 16A / 20A
IEC309 16A x 1	ATS-H1EN16A-W			16A
L620R x 1	ATS-H1L620R-W		20A	
UK x 8	ATS-H8UK-W			10A / 13A / 16A / 20A

1U Intelligent W ATS - Single Circuit



2U Intelligent ATS - Single Circuit		Amp		
Outlets	**Model**	**110V**	**208V**	**230V**
NEMA x 16 NEMA x 20 NEMA x 24	ATS-H16US-W ATS-H20US-W ATS-H24US-W	15A / 20A		
C13 x 16 C13 x 20 C13 x 24 C19 x 10 C19 x 12 C13 x 16 + C19 x 2 C13 x 16 + C19 x 4	ATS-H16C13-W ATS-H20C13-W ATS-H24C13-W ATS-H10C19-W ATS-H12C19-W ATS-H16C13 / 2C19-W ATS-H16C13 / 4C19-W		20A	10A / 16A / 20A
Schuko x 8 French x 8	ATS-H8SCH-W ATS-H8FR-W			10A / 16A / 20A

2U Intelligent W ATS - Single Circuit



2U Intelligent ATS - Dual Circuit		Amp		
Outlets	**Model**	**110V**	**208V**	**230V**
NEMA x 16 NEMA x 20 NEMA x 24	ATS-H16US-W ATS-H20US-W ATS-H24US-W	30A		
C13 x 16 C13 x 20 C13 x 24 C19 x 8 C19 x 10 C19 x 12 C13 x 16 + C19 x 2 C13 x 16 + C19 x 4	ATS-H16C13-W ATS-H20C13-W ATS-H24C13-W ATS-H8C19-W ATS-H10C19-W ATS-H12C19-W ATS-H16C13 / 2C19-W ATS-H16C13 / 4C19-W		30A	32A
L630R x 1	ATS-H1L630R-W		30A	
IEC309-16A x 2 IEC309-32A x 1	ATS-H2EN16A-W ATS-H1EN32A-W			32A

2U Intelligent W ATS - Dual Circuit



** Customization available on request

230V ATS

Inlet	Amp	Cordset	
		mm²	length
60309	32A	4	3 M
Open end	20A	2.5	3 M
60309 C20	16A	1.5	3 M
BS1363 UK	13A	1.5	3 M
C14	10A	1.5	3 M

Outlet	C13	C19	UK	SCH	FR

208V ATS

Inlet	Amp	Cordset	
		AWG	length
L6-30P	30A	10	10 FT
L6-20P	20A	12	10 FT

Outlet	C13	C19

110V ATS

Inlet	Amp	Cordset	
		AWG	length
L5-30P 5-30P	30A	10	10 FT
L5-20P 5-20P	20A	12	10 FT
5-15P	15A	14	10 FT

Outlet	NEMA

WS Intelligent Series - Outlet Switching + Circuit Monitoring

1U Intelligent ATS - Single Circuit		Amp		
Outlets	**Model**	**110V**	**208V**	**230V**
NEMA x 10 NEMA x 12	ATS-H10US-WS ATS-H12US-WS	15A / 20A		
C13 x 8 C13 x 10 C13 x 12 C19 x 6 C19 x 8 C13 x 8 + C19 x 1 C13 x 8 + C19 x 2	ATS-H8C13-WS ATS-H10C13-WS ATS-H12C13-WS ATS-H6C19-WS ATS-H8C19-WS ATS-H8C13 / 1C19-WS ATS-H8C13 / 2C19-WS		20A	10A / 16A / 20A
IEC309 16A x 1	ATS-H1EN16A-WS			16A
L620R x 1	ATS-H1L620R-WS		20A	
UK x 8	ATS-H8UK-WS			10A / 13A / 16A / 20A

1U Intelligent WS ATS - Single Circuit



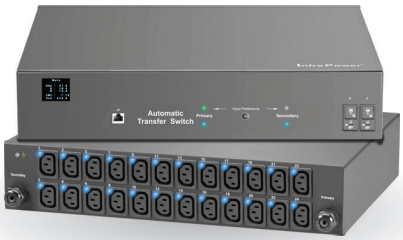
2U Intelligent ATS - Single Circuit		Amp		
Outlets	**Model**	**110V**	**208V**	**230V**
NEMA x 16 NEMA x 20 NEMA x 24	ATS-H16US-WS ATS-H20US-WS ATS-H24US-WS	15A / 20A		
C13 x 16 C13 x 20 C13 x 24 C19 x 10 C19 x 12 C13 x 16 + C19 x 2 C13 x 16 + C19 x 4	ATS-H16C13-WS ATS-H20C13-WS ATS-H24C13-WS ATS-H10C19-WS ATS-H12C19-WS ATS-H16C13 / 2C19-WS ATS-H16C13 / 4C19-WS		20A	10A / 16A / 20A
Schuko x 8 French x 8	ATS-H8SCH-WS ATS-H8FR-WS			10A / 16A / 20A

2U Intelligent WS ATS - Single Circuit



2U Intelligent ATS - Dual Circuit		Amp		
Outlets	**Model**	**110V**	**208V**	**230V**
NEMA x 16 NEMA x 20 NEMA x 24	ATS-H16US-WS ATS-H20US-WS ATS-H24US-WS	30A		
C13 x 16 C13 x 20 C13 x 24 C19 x 8 C19 x 10 C19 x 12 C13 x 16 + C19 x 2 C13 x 16 + C19 x 4	ATS-H16C13-WS ATS-H20C13-WS ATS-H24C13-WS ATS-H8C19-WS ATS-H10C19-WS ATS-H12C19-WS ATS-H16C13 / 2C19-WS ATS-H16C13 / 4C19-WS		30A	32A
L630R x 1	ATS-H1L630R-WS		30A	
IEC309-16A x 2 IEC309-32A x 1	ATS-H2EN16A-WS ATS-H1EN32A-WS			32A

2U Intelligent WS ATS - Dual Circuit



** Customization available on request

230V ATS

Inlet	Amp	Cordset	
		mm²	length
60309	32A	4	3 M
Open end	20A	2.5	3 M
60309 C20	16A	1.5	3 M
BS1363 UK	13A	1.5	3 M
C14	10A	1.5	3 M

Outlet	C13	C19	UK	SCH	FR

208V ATS

Inlet	Amp	Cordset	
		AWG	length
L6-30P	30A	10	10 FT
L6-20P	20A	12	10 FT

Outlet	C13	C19

110V ATS

Inlet	Amp	Cordset	
		AWG	length
L5-30P 5-30P	30A	10	10 FT
L5-20P 5-20P	20A	12	10 FT
5-15P	15A	14	10 FT

Outlet	NEMA

WSi Intelligent Series - Outlet Switching + Outlet & Circuit Monitoring

1U Intelligent ATS - Single Circuit		Amp		
Outlets	**Model**	**110V**	**208V**	**230V**
NEMA x 10 NEMA x 12	ATS-H10US-WSi ATS-H12US-WSi	15A / 20A		
C13 x 8 C13 x 10 C13 x 12 C19 x 6 C19 x 8 C13 x 8 + C19 x 1 C13 x 8 + C19 x 2	ATS-H8C13-WSi ATS-H10C13-WSi ATS-H12C13-WSi ATS-H6C19-WSi ATS-H8C19-WSi ATS-H8C13 / 1C19-WSi ATS-H8C13 / 2C19-WSi		20A	10A / 16A / 20A
IEC309 16A x 1	ATS-H1EN16A-WSi			16A
L620R x 1	ATS-H1L620R-WSi		20A	
UK x 8	ATS-H8UK-WSi			10A / 13A / 16A / 20A

1U Intelligent WSi ATS - Single Circuit



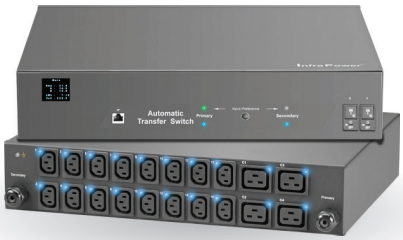
2U Intelligent ATS - Single Circuit		Amp		
Outlets	**Model**	**110V**	**208V**	**230V**
NEMA x 16 NEMA x 20 NEMA x 24	ATS-H16US-WSi ATS-H20US-WSi ATS-H24US-WSi	15A / 20A		
C13 x 16 C13 x 20 C13 x 24 C19 x 10 C19 x 12 C13 x 16 + C19 x 2 C13 x 16 + C19 x 4	ATS-H16C13-WSi ATS-H20C13-WSi ATS-H24C13-WSi ATS-H10C19-WSi ATS-H12C19-WSi ATS-H16C13 / 2C19-WSi ATS-H16C13 / 4C19-WSi		20A	10A / 16A / 20A
Schuko x 8 French x 8	ATS-H8SCH-WSi ATS-H8FR-WSi			10A / 16A / 20A

2U Intelligent WSi ATS - Single Circuit



2U Intelligent ATS - Dual Circuit		Amp		
Outlets	**Model**	**110V**	**208V**	**230V**
NEMA x 16 NEMA x 20 NEMA x 24	ATS-H16US-WSi ATS-H20US-WSi ATS-H24US-WSi	30A		
C13 x 16 C13 x 20 C13 x 24 C19 x 8 C19 x 10 C19 x 12 C13 x 16 + C19 x 2 C13 x 16 + C19 x 4	ATS-H16C13-WSi ATS-H20C13-WSi ATS-H24C13-WSi ATS-H8C19-WSi ATS-H10C19-WSi ATS-H12C19-WSi ATS-H16C13 / 2C19-WSi ATS-H16C13 / 4C19-WSi		30A	32A
L630R x 1	ATS-H1L630R-WSi		30A	
IEC309-16A x 2 IEC309-32A x 1	ATS-H2EN16A-WSi ATS-H1EN32A-WSi			32A

2U Intelligent WSi ATS - Dual Circuit



** Customization available on request

230V ATS

Inlet	Amp	Cordset	
		mm²	length
60309	32A	4	3 M
Open end	20A	2.5	3 M
60309 C20	16A	1.5	3 M
BS1363 UK	13A	1.5	3 M
C14	10A	1.5	3 M

Outlet	C13	C19	UK	SCH	FR

208V ATS

Inlet	Amp	Cordset	
		AWG	length
L6-30P	30A	10	10 FT
L6-20P	20A	12	10 FT

Outlet	C13	C19

110V ATS

Inlet	Amp	Cordset	
		AWG	length
L5-30P 5-30P	30A	10	10 FT
L5-20P 5-20P	20A	12	10 FT
5-15P	15A	14	10 FT

Outlet	NEMA

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