

User Manual - Automatic Transfer Switch



230V Amp : 10A / 16A Outlet : C13 / C19



208V Amp : 20A Outlet : C13 / C19



110V Amp : 15A / 20A Outlet : US NEMA

Designed and manufactured by Austin Hughes

Legal Information

First English printing, December 2021

Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. We are not liable for any injury or loss that results from the use of this equipment.

Safety Instructions

Please read all of these instructions carefully before you use the device. Save this manual for future reference.

- Unplug equipment before cleaning. Don't use liquid or spray detergent; use a moist cloth.
- Keep equipment away from excessive humidity and heat. Preferably, keep it in an air-conditioned environment with temperatures not exceeding 40° Celsius (104° Fahrenheit).
- When installing, place the equipment on a sturdy, level surface to prevent it from accidentally falling and causing damage to other equipment or injury to persons nearby.
- When the equipment is in an open position, do not cover, block or in any way obstruct the gap between it and the power supply. Proper air convection is necessary to keep it from overheating.
- Arrange the equipment's power cord in such a way that others won't trip or fall over it.
- If you are using a power cord that didn't ship with the equipment, ensure that it is rated for the voltage and current labelled on the equipment's electrical ratings label. The voltage rating on the cord should be higher than the one listed on the equipment's ratings label.
- Observe all precautions and warnings attached to the equipment.
- If you don't intend on using the equipment for a long time, disconnect it from the power outlet to prevent being dam aged by transient over-voltage.
- Keep all liquids away from the equipment to minimize the risk of accidental spillage. Liquid spilled on to the power supply or on other hardware may cause damage, fire or electrical shock.
- Only qualified service personnel should open the chassis. Opening it yourself could damage the equipment and invalidate its warranty.
- If any part of the equipment becomes damaged or stops functioning, have it checked by qualified service personnel.

What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
 - □ Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
 - $\hfill\square$ Repair or attempted repair by anyone not authorized by us.
 - $\hfill\square$ Any damage of the product due to shipment.
 - $\hfill\square$ Removal or installation of the product.
 - $\hfill\square$ Causes external to the product, such as electric power fluctuation or failure.
 - \Box Use of supplies or parts not meeting our specifications.
 - □ Normal wear and tear.
 - \Box Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

Regulatory Notices Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in business, industrial and commercial environments.

Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-position or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

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Unpacking

The equipment comes with the standard parts shown in package content. Check and make sure they are included and in good condition. If anything is missing, or damaged, contact the supplier immediately.

Part I. ATS Installation & Connection

<1.1 > Package Content



- Rackmount ATS unit x 1
- Mounting Bracket (set of 3) x 1
- M3.2*4.5 mm screw x 12

< 1.2 > Product Overview

InfraPower Rackmount Auomatic Transfer Switch (ATS) with dual power input provides reliable and redundant power for single-corded equipment. By the input preference switch, users can define the preferred power source. If the primary source is unavailable, the ATS will seamlessly source power from the secondary source without power interruption and downtime. The entire ATS series are designed with a local current meter to easily observe power status and device load.



< 1.3 > Installation

Before Installation

- It is very important to mount the equipment in a suitable cabinet or on a stable surface.
- Make sure the place has a good ventilation, is out of direct sunlight, away from sources of excessive dust, dirt, heat, water, moisture and vibration.

All electrical power and power control wiring must be installed by a qualified electrician and comply with local and national regulations.



Don't exceed the outlet, branch or phase limitations



Step 1

Use the provided screws to attach the mounting bracket set (set of 3).



Step 2

Use the M6 screw set to secure the ATS to your rack (M6 screws not provided).



Step 3

Use the cable ties to fasten each power cord to the cord retention tray (cable ties not provided).

< 1.4 > Power Sources Connection

Step 1 : Before Power Source Connection



All electrical power and power control wiring must be installed by a qualified electrician and comply with local and national regulations.

Don't exceed the outlet, branch or phase limitations

Step 2 : Power Source Connection

Plug the male end of the power cord into the AC power source.

Power Source Association

After the power source connection, the ATS input power LEDs (primary & secondary input) will indicate the power ON / OFF status. Then slide the input preference switch to the primary input.

Primary Input / LED	Secondary Input / LED	Output Power Source
ON	ON	Primary
OFF	ON	Secondary
ON	OFF	Primary
OFF	OFF	OFF

< 1.5 > Devices Connection

- Step 1 : Before connect the devices to the ATS outlet, please keep the device's on / off switch in the off position.
- Step 2 : After connect the devices to the ATS outlet, please power on the device.

Step 3 : Fasten device's power cord to the cord retention tray with cable ties.



Do not exceed the ATS maximum current loads.

Part II. Model & Specification

< 2.1 > 230V ATS Models

Model List - 10 Amp	Height	Outlet	Inlet x 2 (3M cord attached)
ATS-H8C13-10A_C14	1U	C13 x 8	C14
ATS-H10C13-10A_C14	1U	C13 x 10	input plug
ATS-H12C13-10A_C14	2U	C13 x 12	
ATS-H16C13-10A_C14	2U	C13 x 16	

Model List - 16 Amp	Height	Outlet	Inlet x 2 (3M cord attached)
ATS-H8C13-16A_EN	1U	C13 x 8	EN16 60309
ATS-H10C13-16A_EN	1U	C13 x 10	input plug
ATS-H12C13-16A_EN	2U	C13 x 12	
ATS-H16C13-16A_EN	2U	C13 x 16	
ATS-H20C13-16A_EN	2U	C13 x 20	
ATS-H8C13 / 1C19-16A_EN	1U	C13 x 8 + C19 x 1	
ATS-H16C13 / 2C19-16A_EN	2U	C13 x 16 + C19 x 2	

Model List - 16 Amp	Height	Outlet	Inlet x 2 (3M cord attached)
ATS-H8C13-16A_C20	1U	C13 x 8	C20
ATS-H10C13-16A_C20	1U	C13 x 10	input plug
ATS-H12C13-16A_C20	2U	C13 x 12	
ATS-H16C13-16A_C20	2U	C13 x 16	
ATS-H20C13-16A_C20	2U	C13 x 20	
ATS-H8C13 / 1C19-16A_C20	1U	C13 x 8 + C19 x 1	
ATS-H16C13 / 2C19-16A_C20	2U	C13 x 16 + C19 x 2	

< 2.1 > 230V ATS Specification

Floctrical	Nominal input voltage	200 ~ 230V
Electrical	Acceptable input voltage	±10% nominal
	Input frequency	50 / 60Hz
	Inlet plug & cord	2 x C14 / C20 / EN16 60309 plug with 3-meter cord
	Outlet connectors	Multiple C13 / C19 outlets
	Local meter	3-digital LED current meter
	Overload protection	1 x 10-amp circuit breaker for C14 inlet 1 x 16-amp circuit breaker for C20 / EN16 60309 inlet
	Transfer time	10 - 16ms typical
	Electrical endurance	1 x 10⁵ operations
	Power consumption	Approx. 8VA
Dhysical	Product dimensions(1U)	442 x 270 x 43.5 mm (W x D x H)
Filysical	Packing dimensions(1U)	540 x 540 x 150 mm (W x D x H)
	Net weight	4.6 kg / 10.1 lb
	Gross weight	5.1 kg / 11.2 lb
	Product dimensions(2U)	442 x 270 x 87.5 mm (W x D x H)
	Packing dimensions(2U)	540 x 540 x 150 mm (W x D x H)
	Net weight	5.5 kg / 12.1 lb
	Gross weight	6.8 kg / 15 lb
	Chassis color / materials	Dark / Steel
F	Operating temperature	-5 to 60°C degree (23 to 140°F)
Environmental	Storage temperature	-25 to 65°C degree(13 to 149°F)
	Operating humidity	0~95%, non-condensing
	Storage humidity	0~95%, non-condensing
a	EMC	FCC & CE
Compliance	Safety	LVD
	Environment	RoHS2 & REACH compliant

< 2.2 > 208V ATS Models

Model List - 20 Amp	Height	Outlet	Inlet x 2 (3M cord attached)
ATS-H8C13-20A_L6-20P	1U	C13 x 8	L 6-20P
ATS-H10C13-20A_L6-20P	1U	C13 x 10	input plug
ATS-H12C13-20A_L6-20P	2U	C13 x 12	
ATS-H16C13-20A_L6-20P	2U	C13 x 16	
ATS-H20C13-20A_L6-20P	2U	C13 x 20	
ATS-H8C13 / 1C19-20A_L6-20P	1U	C13 x 8 + C19 x 1	
ATS-H16C13 / 2C19-20A_L6-20P	2U	C13 x 16 + C19 x 2	

< 2.2 > 208V ATS Specification

Lickin LaiAcceptable input voltage±10% nominalInput frequency50 / 60HzInlet plug & cord2 x L6-20P plug with 3-meter cordOutlet connectorsMultiple C13 / C19 outletsLocal meter3-digital LED current meterOverload protection1 x 20-amp circuit breakerTransfer time10 - 16ms typicalElectrical endurance1 x 10° operationsPower consumptionApprox. 8VAPhysicalProduct dimensions (1U)Packing dimensions (1U)442 x 270 x 43.5 mm (W x D x H)Packing dimensions (1U)540 x 540 x 150 mm (W x D x H)Net weight5.1 kg / 11.2 lbProduct dimensions (2U)442 x 270 x 87.5 mm (W x D x H)Packing dimensions (2U)540 x 540 x 150 mm (W x D x H)Packing dimensions (2U)540 x 540 x 150 mm (W x D x H)Packing dimensions (2U)540 x 540 x 150 mm (W x D x H)Packing dimensions (2U)540 x 540 x 150 mm (W x D x H)Packing dimensions (2U)540 x 540 x 150 mm (W x D x H)Packing dimensions (2U)540 x 540 x 150 mm (W x D x H)Packing dimensions (2U)540 x 540 x 150 mm (W x D x H)Net weight5.5 kg / 12.1 lbGross weight6.8 kg / 15 lbChasis color / materialsDark / SteelEnvironmentalOperating temperatureStorage temperature-5 to 66°C degree (13 to 140°F)Operating humidity0~95%, non-condensingOperating humidity0~95%, non-condensingEmutational humidity0~95%, non-condensingEnvironment	Floctrical	Nominal input voltage	208V	
Input frequency50 / 60HzInlet plug & cord2 x L6-20P plug with 3-meter cordOutlet connectorsMultiple C13 / C19 outletsLocal meter3-digital LED current meterOverload protection1 x 20-amp circuit breakerTransfer time10 - 16ms typicalElectrical endurance1 x 10° operationsPower consumptionApprox. 8VAPhysical9000000000000000000000000000000000000	Electrical	Acceptable input voltage	±10% nominal	
Inlet plug & cord2 x L6-20P plug with 3-meter cordOutlet connectorsMultiple C13 / C19 outletsLocal meter3-digital LED current meterOverload protection1 x 20-amp circuit breakerTransfer time10 - 16ms typicalElectrical endurance1 x 10° operationsPower consumptionApprox. 8VAPhysical9Product dimensions (1U)442 x 270 x 43.5 mm (W x D x H)Packing dimensions (1U)540 x 540 x 150 mm (W x D x H)Net weight5.1 kg / 10.1 lbGross weight5.1 kg / 11.2 lbProduct dimensions (2U)540 x 540 x 150 mm (W x D x H)Packing dimensions (2U)540 x 540 x 150 mm (W x D x H)Net weight5.5 kg / 12.1 lbGross weight6.8 kg / 15 lbChassis color / materialsDark / SteelEnvironmentalOperating temperature Storage temperature-25 to 65°C degree (13 to 149°F)Operating humidity0-95%, non-condensingStorage humidity0-95%, non-condensingStorage humidity0-95%, non-condensingEnvironmentalEMCEnvironmentalFCC & CESafetyLVDEnvironmentalFCC & CESafetyLVDEnvironmentalRoHS2 & REACH compliant		Input frequency	50 / 60Hz	
Outlet connectorsMultiple C13 / C19 outletsLocal meter3-digital LED current meterOverload protection1 x 20-amp circuit breakerTransfer time10 - 16ms typicalElectrical endurance1 x 10° operationsPower consumptionApprox. 8VAPhysicalProduct dimensions (1U)Packing dimensions (1U)442 x 270 x 43.5 mm (W x D x H)Packing dimensions (1U)540 x 540 x 150 mm (W x D x H)Net weight4.6 kg / 10.1 lbGross weight5.1 kg / 11.2 lbProduct dimensions (2U)540 x 540 x 150 mm (W x D x H)Packing dimensions (2U)540 x 540 x 150 mm (W x D x H)Packing dimensions (2U)540 x 540 x 150 mm (W x D x H)Packing dimensions (2U)540 x 540 x 150 mm (W x D x H)Packing dimensions (2U)540 x 540 x 150 mm (W x D x H)Net weight5.5 kg / 12.1 lbGross weight6.8 kg / 15 lbChassis color / materialsDark / SteelEnvironmentalOperating temperatureOperating temperature-25 to 60°C degree (23 to 140°F)Storage temperature-25 to 65°C degree (13 to 149°F)Operating humidity0-95%, non-condensingStorage humidity0-95%, non-condensingStorage humidity0-95%, non-condensingComplianceEMCFCC & CESafetyLVDEnvironmentRoHS2 & REACH compliant		Inlet plug & cord	2 x L6-20P plug with 3-meter cord	
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Transfer time10 - 16ms typicalElectrical endurance1 x 10° operationsPower consumptionApprox. 8VAPhysicalProduct dimensions (1U)442 x 270 x 43.5 mm (W x D x H)Packing dimensions (1U)540 x 540 x 150 mm (W x D x H)Packing dimensions (1U)540 x 540 x 150 mm (W x D x H)Net weight4.6 kg / 10.1 lbGross weight5.1 kg / 11.2 lbProduct dimensions (2U)442 x 270 x 87.5 mm (W x D x H)Packing dimensions (2U)540 x 540 x 150 mm (W x D x H)Packing dimensions (2U)540 x 540 x 150 mm (W x D x H)Net weight5.5 kg / 12.1 lbGross weight6.8 kg / 15 lbChassis color / materialsDark / SteelEnvironmentalOperating temperatureStorage temperature-25 to 65°C degree (13 to 140°F)Storage temperature-25 to 65°C degree (13 to 149°F)Operating humidity0~95%, non-condensingStorage humidity0~95%, non-condensingEnvironmentEMCFCC & CESafetyEnvironmentRoHS2 & REACH compliant		Overload protection	1 x 20-amp circuit breaker	
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Physical Product dimensions (1U) 442 x 270 x 43.5 mm (W x D x H) Packing dimensions (1U) 540 x 540 x 150 mm (W x D x H) Net weight 4.6 kg / 10.1 lb Gross weight 5.1 kg / 11.2 lb Product dimensions (2U) 442 x 270 x 87.5 mm (W x D x H) Packing dimensions (2U) 442 x 270 x 87.5 mm (W x D x H) Packing dimensions (2U) 540 x 540 x 150 mm (W x D x H) Packing dimensions (2U) 540 x 540 x 150 mm (W x D x H) Net weight 5.5 kg / 12.1 lb Gross weight 6.8 kg / 15 lb Chassis color / materials Dark / Steel Environmental Operating temperature Operating temperature -25 to 65°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 FCC & CE Safety LVD Environment RoHS2 & REACH compliant		Power consumption	Approx. 8VA	
ProysicalPacking dimensions (1U)540 x 540 x 150 mm (W x D x H)Net weight4.6 kg / 10.1 lbGross weight5.1 kg / 11.2 lbProduct dimensions (2U)442 x 270 x 87.5 mm (W x D x H)Packing dimensions (2U)540 x 540 x 150 mm (W x D x H)Packing dimensions (2U)540 x 540 x 150 mm (W x D x H)Net weight5.5 kg / 12.1 lbGross weight6.8 kg / 15 lbChassis color / materialsDark / SteelProge temperature-5 to 60°C degree (23 to 140°F)Storage temperature-25 to 65°C degree (13 to 149°F)Operating humidity0~95%, non-condensingStorage humidity0~95%, non-condensingComplianceEMCEnvironmentFCC & CESafetyLVDEnvironmentRoHS2 & REACH compliant	Dhysical	Product dimensions(1U)	442 x 270 x 43.5 mm (W x D x H)	
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Packing dimensions (2U)540 x 540 x 150 mm (W x D x H)Net weight5.5 kg / 12.1 lbGross weight6.8 kg / 15 lbChassis color / materialsDark / SteelOperating temperatureStorage temperature-5 to 60°C degree (23 to 140°F)Storage temperature-25 to 65°C degree (13 to 149°F)Operating humidity0~95%, non-condensingStorage humidity0~95%, non-condensingStorage humidity0~95%, non-condensingEMCFCC & CESafetyLVDEnvironmentRoHS2 & REACH compliant		Product dimensions(2U)	442 x 270 x 87.5 mm (W x D x H)	
Net weight5.5 kg / 12.1 lbGross weight6.8 kg / 15 lbChassis color / materialsDark / SteelEnvironmentalOperating temperatureStorage temperature-5 to 60°C degree (23 to 140°F)Storage temperature-25 to 65°C degree (13 to 149°F)Operating humidity0~95%, non-condensingStorage humidity0~95%, non-condensingEMCFCC & CESafetyLVDEnvironmentRoHS2 & REACH compliant		Packing dimensions(2U)	540 x 540 x 150 mm (W x D x H)	
Gross weight 6.8 kg / 15 lb Chassis color / materials Dark / 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 Empliance EMC FCC & CE Safety Environment RoHS2 & REACH compliant		Net weight	5.5 kg / 12.1 lb	
Chassis color / materials Dark / 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 FCC & CE Safety LVD Environment RoHS2 & REACH compliant		Gross weight	6.8 kg / 15 lb	
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 Storage humidity 0~95%, non-condensing EMC FCC & CE Safety LVD Environment RoHS2 & REACH compliant		Chassis color / materials	Dark / Steel	
Environmental Storage temperature -25 to 65°C degree (13 to 149°F) Operating humidity 0~95%, non-condensing Storage humidity 0~95%, non-condensing Storage humidity 0~95%, non-condensing EMC FCC & CE Safety LVD Environment RoHS2 & REACH compliant	F assian and all	Operating temperature	-5 to 60°C degree (23 to 140°F)	
Operating humidity 0~95%, non-condensing Storage humidity 0~95%, non-condensing Compliance EMC FCC & CE Safety Environment RoHS2 & REACH compliant	Environmental	Storage temperature	-25 to 65°C degree(13 to 149°F)	
Storage humidity 0~95%, non-condensing Compliance EMC FCC & CE Safety LVD Environment RoHS2 & REACH compliant		Operating humidity	0~95%, non-condensing	
Compliance EMC FCC & CE Safety LVD Environment RoHS2 & REACH compliant		Storage humidity	0~95%, non-condensing	
Compliance LVD Safety LVD Environment RoHS2 & REACH compliant		EMC	FCC & CE	
Environment RoHS2 & REACH compliant	Compliance	Safety	LVD	
		Environment	RoHS2 & REACH compliant	

< 2.3 > 110V ATS Models

Model List - 15 Amp	Height	Outlet	Inlet x 2 (3M cord attached)
ATS-H8US-15A_5-15P	1U	NEMA x 8	NEMA 5-15P
ATS-H10US-15A_5-15P	1U	NEMA x 10	input plug
ATS-H12US-15A_5-15P	2U	NEMA x 12	
ATS-H16US-15A_5-15P	2U	NEMA x 16	
ATS-H20US-15A_5-15P	2U	NEMA x 20	

Model List - 20 Amp	Height	Outlet	Inlet x 2 (3M cord attached)
ATS-H8US-20A_L5-20P	1U	NEMA x 8	NEMA L 5-20P
ATS-H10US-20A_L5-20P	1U	NEMA x 10	input plug
ATS-H12US-20A_L5-20P	2U	NEMA x 12	
ATS-H16US-20A_L5-20P	2U	NEMA x 16	
ATS-H20US-20A_L5-20P	2U	NEMA x 20	

< 2.3 > 110V ATS Specification

Electrical	Nominal input voltage	110V	
Electrical	Acceptable input voltage	±10% nominal	
	Input frequency	50 / 60Hz	
	Inlet plug & cord	2 x NEMA 5-15P / L5-20P plug with 3-meter cord	
	Outlet connectors	Multiple NEMA 5-20R outlets	
	Local meter	3-digital LED current meter	
	Overload protection	1 x 15-amp circuit breaker for NEMA 5-15P inlet 1 x 20-amp circuit breaker for NEMA L5-20P inlet	
	Transfer time	10 - 16ms typical	
	Electrical endurance	1 x 10⁵ operations	
	Power consumption	Approx. 8VA	
Dhysical	Product dimensions (1U)	442 x 270 x 43.5 mm (W x D x H)	
Fliysical	Packing dimensions(1U)	540 x 540 x 150 mm (W x D x H)	
	Net weight	4.6 kg / 10.1 lb	
	Gross weight	5.1 kg / 11.2 lb	
	Product dimensions(2U)	442 x 270 x 87.5 mm (W x D x H)	
	Packing dimensions(2U)	540 x 540 x 150 mm (W x D x H)	
	Net weight	5.5 kg / 12.1 lb	
	Gross weight	6.8 kg / 15 lb	
	Chassis color / materials	Dark / Steel	
	Operating temperature	-5 to 60°C degree (23 to 140°F)	
Environmental	Storage temperature	-25 to 65°C degree(13 to 149°F)	
	Operating humidity	0~95%, non-condensing	
	Storage humidity	0~95%, non-condensing	
0	EMC	FCC & CE	
Compliance	Safety	LVD	
	Environment	RoHS2 & REACH compliant	

The company reserves the right to modify product specifications without prior notice and assumes no responsibility for any error which may appear in this publication.

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