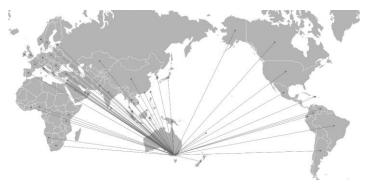




STATIC POWER

Static Power was formed in 2002 and is based in Melbourne, Australia. We serve clients in over 50 countries with 85% of our products heading overseas.



Our Mission

Our mission is to lead in the manufacture of high-quality and reliable Static Transfer Switches, and to offer unique client focused solutions globally.

Static Transfer Switch Experts

Our product range has grown to include unique rack mount, wall mount and freestanding models. Using our standard product models as a base, we engineer unique customisations so that complete integration compatibility can be achieved.

The design philosophy of our iSTS products emphasises ruggedness, practicality and reliability. We understand critical power and have equipped iSTS switches with the latest supervisory and data acquisition controls to enable easy and straight-forward integration and operation. We proudly design and manufacture the smallest footprint, highest-MTBF, fully featured products in their respective classes.

Quality Products

We strive to provide the highest quality products that meet the requirements of local and international standards. Our units are manufactured to comply with all applicable STS standards; 62310-1, 2, & 3 safety and regulatory standards. Our units are tested to comply with CBEMA/ITIC & SEMI power quality standards.

Standards to which conformity is declared: CE, RCM, RoHS and UL & CSA capable.

Contact Us

Static Power Pty Ltd 5 Candlebark Court Research, 3095 Victoria, Australia

Tel. +61 3 9437 0494 sales@staticpower.com.au www.staticpower.com.au







CONTENT

19" Rack	3
iSTS Model F	5
Wall Mount	7
Free Standing	9
Panel Mount	11
Rail Mount	12



19" RACK MOUNTED

With a MTBF in excess of 800,000 hours, Static Power's 19" rack iSTS are dedicated to applications requiring a high level of reliability.

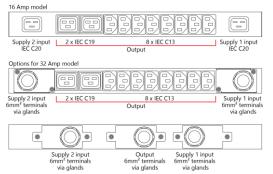
All iSTS B models have an integrated maintenance bypass with hot socket field replaceable power module facilitating maintenance and reducing Time To Repair – MTTR – to a minimum.

The true solid state iSTS A1 with its multiple inputs/output configurations replace advantageously inferior relay or hybrid ATS.

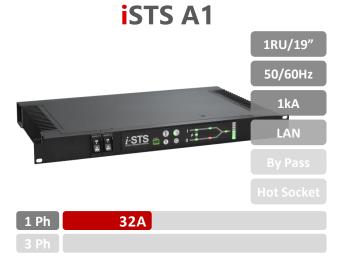
All our 19"rack iSTS are adaptable to particular applications or requirements.

Key features:

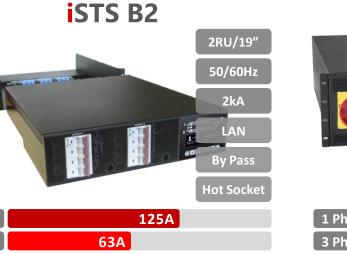
- True solid state, Break-Before-Make transfer
- Transfer time: <1ms to ¼ cycle
- MTBF > 800,000h
- Hot socket replaceable power module*
- Maintenance bypass*
- Incoming source isolators
- HTTP, SNMP, MODBUS TCP, email and NTP**
 - *Except iSTS A1 **iSTS A1 optional



iSTS A1 – Inputs/Output configurations











1 Ph

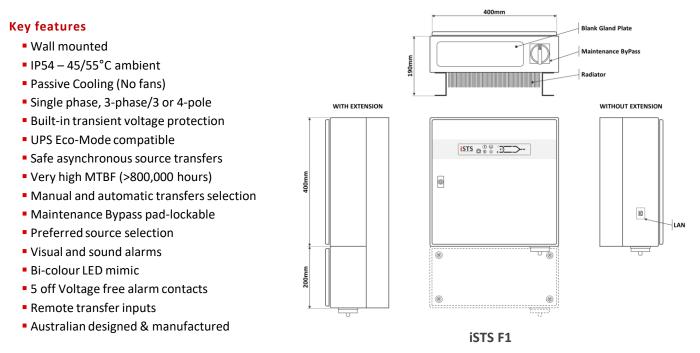
3 Ph

	. ;; /ars e ; ; (±⊃+1 .			
	iSTS A1	iSTS B1	iSTS B2	iSTS B4
Current rating	16A and 32A		1Ph: 125A max 3Ph: 63A max	1Ph: 250A max 3Ph: 160A max
Voltage rating	115V or 230V, ±15%	All	region-specific voltages selectable ±1	0%
Туре	1-Phase/2-Pole		1-Phase/2-Pole, 3-Phase/3-Pole or 3-Phase/4-Pole	
Frequency		50Hz and 60Hz, ±10	0% - Auto detection	
Transfer type		Break-Before-Make zero curre	ent transfer by Thyristors / SCR	
Synchronous break time		<1ms - asynchronous b	preak time up to ¼ cycle	
MTBF	>1,000,000 hours	,	>800,000 hours	
Maintenance bypass	None	Cradle wit	th 3-position overlapping, no-break C/	AM switch
Isolation	Optional incoming source isolator switches, front mounted	Incoming sources isolator switches		
Display	Bi-colour LED mimic decal with load indication	Bi-colour LED mimic decal with graphic OLED display and information interface		
Interface	Preferred supply selection, Source transfer selection and Alarm cancel button			
Contact	One voltage free general alarm indicator, Form A or Form B - SPST	2 Self wetting transfer control inputs 5 Voltage free change-over status indicators, Form C		
Ethernet	LAN optional	н	TTP, SNMP, MODBUS TCP, Email & N	ГР
Input options	16A: IEC C20 sockets 32A: 6mm ² terminals with glands	Fixed wiring to terminals up to 6mm ² cables via glands	Fixed wiring to terminals up to 16mm ² cables via glands	Fixed wiring to terminals up to 70mm ² cables via glands
Output options	16A: 2 x IEC C19 + 8 x IEC C13 sockets 32A: 2 x IEC C19 + 8 x IEC C13 sockets or 6mm ² terminals with glands	Fixed wiring to terminals up to 6mm ² cables via glands	Fixed wiring to terminals up to 16mm ² cables via glands	Fixed wiring to terminals up to 70mm ² cables via glands
Dimensions H x W x D	16A: 1RU/19" - 44 x 483 x 285mm 32A: 1RU/19" - 44 x 483 x 307mm	1RU/19" - 44 x 483 x 510mm	2RU/19" - 88 x 483 x 460mm	4RU/19" - 177 x 483 x 650mm
Weight	5kg	11kg	15kg	38kg
Temperature	0 – 40°C		0-45°C	
IP rating		IP	31	
Detection		Digita	l: <1ms	
Asynchronous break time		0ms, 10ms, 50ms or Vt	proportional, 0° to 180°	
Loading	0 - 100% @40°C ambient		0 - 100% @45°C ambient	
Device ratings	80A _{RMS} , 1400V 1kA for 1 cycle	150A _{RMS} , 1400V 2kA 1 cycle	134A _{RMS} , 1600V 2kA 1 cycle	250/300A _{RMS} , 1400V 3.5kA/5kA 1 cycle
Overload @40°C ambient	40A for 30s 63A for 1s 115A for 0.1s	63A for 30s 100A for 1s 225A for 0.1s	125A for 30s 140A for 1s 250A for 0.1s	125% for 10min, 150% for 30s 200% for 1s, 300% for 0.1s 5kA for 1 cycle
Fault current setting	300% peak with load fault transfer inhibit	>3	>350% peak with load fault transfer inhibit	
Safe install environment	20kA, 100A in	ternally fused	20kA, 100A/200A internally fused	20kA, 300A internally fused
Protection		BS88/FE100	100A/200A fuses - BS88/FE100	300A fuses – aR-NGT00
Power factor		No pract	tical limit	
Max THDV	10% - Max allowable source voltage distortion			
Crest factor	3:1 3.5:1			
dV/dt max	800V/µs			
Cooling	Passive Redundant fans			
Humidity @40°C ambient	5 – 95% non-condensing			
Regulatory approvals	IEC 62310-1,2,3 - IEC 60950 - IEC 61000-6-1,2,3,4 – CE – RCM - UL Capable - RoHS			
Standard warranty			ir or replacement policy	



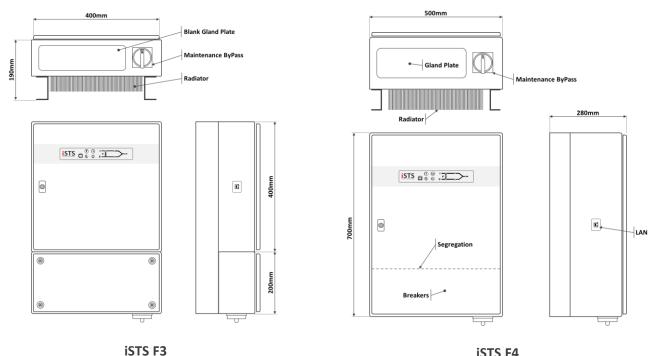
The IP54, naturally cooled wall mounted iSTS

Superior in performance and ruggedness, the iSTS Model F are designed for tough environments where power availability is essential.



Available options

- Ethernet module for LAN/TCP, Modbus & SNMP
- Stainless steel enclosure





iSTS F4



iSTS F1 iSTS F3 iSTS F4	-		
Current rating 1Ph: Up to 32A 1Ph: 125A 1Ph: 250A 3Ph: 63A 3ph: 125A			
Voltage rating115V or 230V, ±10%3Ph: 63A3ph: 125AVoltage rating115V or 230V, ±10%All region-specific voltages selectable ±10%			
Type Single phase Single phase/3-Pole or 3-Phase/4-Pole			
Frequency 50Hz and 60Hz, ±10% - Auto detection			
Transfer type Break-Before-Make zero current transfer by Thyristors / SCR			
Synchronous break time Synchronous break time up to ¼ cycle			
MTBF >800,000 hours			
Maintenance bypass 3 Positions CAM Switch - Lockable			
Inputs and output breakers Optional Inputs and output breakers			
Display Bi-colour LED mimic decal			
Interface Preferred supply selection, Source transfer selection and Alarm cancel buttons			
Contact One voltage free general alarm indicator 5 voltage free alarm indicator			
Ethernet LAN - Optional			
Inputs/Output M8 bolted terminals M8/M10 bolted term	minals		
Without extension: Without extension: Dimensions & Weight W400 x D190 x H400mm - 12kg With extension: W400 x D190 x H600mm - 34kg W500 x D280 x H700mm W400 x D190 x H600mm - 15kg W400 x D190 x H600mm - 15kg W400 x D190 x H600mm W500 x D280 x H700mm	m – 47kg		
<i>Temperature</i> 0 – 55°C 0 – 45°C			
IP rating IP54			
Detection Digital: <1ms			
Asynchronous break time Vt proportional up to 12ms, 0° to 180°			
Loading 0.5A - 100% @55°C ambient 0 - 100% @55°C ambient 0 - 100% @45°C am	bient		
Device ratings 150A _{RMS} , 1400V, 2kA for 1 cycle 132A _{RMS} , 1600V, 2kA for 1 cycle 300A _{RMS} , 1600V, 5kA for	or 1 cycle		
	0% for 1s 6 for 0.1s		
Fault current setting300% peak with load fault transfer inhibit			
Safe install environment 20kA, 300A internally fused			
Protection 100A fuses - BS88/FE100 300A fuses - aR-NC	GT00		
Power factor No practical limit			
Max THDV 10% - Max allowable source voltage distortion	10% - Max allowable source voltage distortion		
Crest factor 3:1			
<i>dV/dt max</i> 800V/μs 1000V/μs			
Cooling Passive			
Humidity @40°C ambient5 – 95% non-condensing	5 – 95% non-condensing		
Regulatory approvals IEC 62310-1,2,3 - IEC 60950 - IEC 61000-6-1,2,3,4 - CE - RCM - UL Capable - RoHS			
Standard warranty 24 months offsite repair or replacement policy	24 months offsite repair or replacement policy without notice		



WALL MOUNTED

With a MTBF in excess of 800,000 hours, Static Power's wall mount iSTS are dedicated to applications requiring a high level of reliability.

The iSTS W and iSTS B4w are fused for fault current up to 5kA. iSTS C and iSTS Hw are designed fuseless for fault current up to 20kA

The iSTS B4w integrates a hot socket field replaceable power module facilitating maintenance and reducing Time To Repair – MTTR - at its minimum.

1 Ph

3 Ph

All our wall mount iSTS are adaptable to particular applications or requirements.

Key features:

- True solid state, Break-Before-Make transfer
- Transfer time: <1ms to ¼ cycle
- MTBF > 800,000h
- Fault current up to 20kA
- Maintenance bypass
- Incoming sources and output isolators
- Hot socket replaceable power module*
- HTTP, SNMP, MODBUS TCP, email and NTP

*for iSTS B4w only





iSTS B4w

Fuse

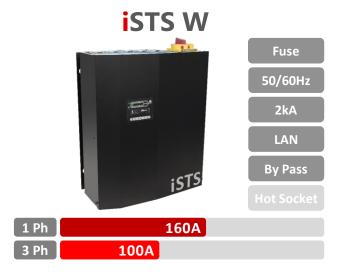
50/60Hz

5kA

LAN

By Pass

Hot Socket





Fuseless 50/60Hz 20kA LAN By Pass Hot Socket 3 Ph 160A





	ists W	ists B4W	iSTS C	ists Hw
Current rating	1Ph: 160A max	1Ph: 250A max	1Ph: 250A max	1Ph: 400A max
Voltage rating	3Ph: 100A max	3Ph: 160A max	3Ph: 160A max tages selectable ±10%	3Ph: 250A max
Type		v ,	/3-Pole or 3-Phase/4-Pole	
Frequency			0% - Auto detection	
Transfer type		,	nt transfer by Thyristors / SCR	
Synchronous break time				
MTBF	<1ms - synchronous break time up to ¼ cycle >800,000 hours			
WILDE		3-position overlapping, no-break		
Maintenance bypass	3-position overlapping, no-break CAM switch	CAM switch with hot socket field replaceable power module	5 Mechanically interlocked circuit breakers	
Isolation	Incoming source isolator switches Incoming sources and output isolator switches		output isolator switches	
Display	Bi-colour LED mimic decal with graphic OLED display and information interface			
Interface	Preferred supply selection, Source transfer selection and Alarm cancel button			
Contact	2 Self wet	ting transfer control inputs and 5 Vol	tage free change-over status indicato	rs, Form C
Ethernet	HTTP, SNMP, MODBUS TCP, Email & NTP			
Connexions	Fixed wiring to terminals up	to 70mm ² cables via glands	Fixed wiring to terminals up	to 95mm ² cables via glands
Dimensions H x W x D	550 x 460 x 260mm	650 x 483 x 177mm	800 x 600 x 400mm	1200 x 600 x 300mm
Weight	25kg	38kg	60kg - 97kg	75kg - 165kg
Temperature		0	45°C	
IP rating	IP20		IP21	
Detection		Digita	: <1ms	
Asynchronous break time	Oms, 10ms, 50ms or Vt proportional, 0° to 180°			
Loading			5°C ambient	
Device ratings	134A _{RMS} , 1400V, 2kA for 1 cycle	250/300A _{RMS} , 1400V, 3.5/5kA 1 cycle		
Overload @40°C ambient	125A for 30s 140A for 1s, 250A for 0.1s 2kA for 1 cycle	125% for 10min, 150% for 30s 200% for 1s, 300% for 0.1s 5kA for 1 cycle	125% for 10min, 150% for 30s, 1kA for 1s, 20kA for 1 cycle	
Fault current setting		>350% peak with load	d fault transfer inhibit	
Safe install environment	20kA, 100/200A internally fused	20kA, 300A internally fused	20kA for 1 cycle	- Fuseless design
Protection	100A/200A fuses – FE/FEE BS88	300A fuses – aR-NGT00	Circuit I	preakers
Power factor		No pract	ical limit	
Max THDV	10% - Max allowable source voltage distortion			
Crest factor	3.5 : 1			
dV/dt max	800V/µs			
Cooling	Redundant fans			
Humidity @40°C ambient	5 – 95% non-condensing			
Regulatory approvals	IEC 62310-1,2,3 - IEC 60950 - IEC 61000-6-1,2,3,4 – CE – RCM - UL Capable - RoHS			
Standard warranty		24 months offsite repai	r or replacement policy	

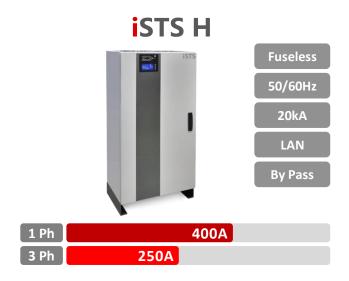


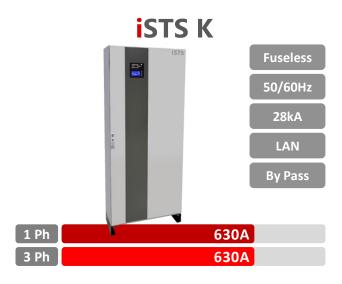
FREE STANDING

With a MTBF in excess of 800,000 hours, Static Power's free standing iSTS are dedicated to applications requiring a high level of reliability.

The iSTS H, K and G are fuseless designed for fault current up to 36kA in standard.

All our free standing iSTS are adaptable to particular applications or requirements.









Key features:

- True solid state, Break-Before-Make transfer
- Transfer time: <1ms to ¼ cycle
- MTBF > 800,000h
- Fault current up to 36kA
- Maintenance bypass mechanically interlocked
- Incoming sources and output isolators
- HTTP, SNMP, MODBUS TCP, email and NTP

Adaptable:

- Fault current
- Cable entry
- Corrosion and Ingress Protection
- ...



		1575	
	ists H	iSTS K	iSTS G
Current rating	1Ph: 400A max 3Ph: 250A max	1Ph: 630A max 3Ph: 630A max	1Ph: 630A max 3Ph: 1600A max
Voltage rating		All region-specific voltages selectable ±10%	
Frequency		50Hz and 60Hz, ±10% - Auto detection	
Туре	1	1-Phase/2-Pole, 3-Phase/3-Pole or 3-Phase/4-Pole	e
Transfer type	Break	-Before-Make zero current transfer by Thyristors	s / SCR
Synchronous break time		<1ms - synchronous break time up to ¼ cycle	
MTBF	>800,000 hours		
Maintenance bypass	5 Mechanically interlocked circuit breakers		
Isolation	Incoming sources and output isolator switches		
Display	Bi-colour LED mimic decal with graphic backlit LCD display and information interface		Fully featured colour 7" display and information interface
Interface	Preferred supp	ply selection, Source transfer selection and Alarm	n cancel button
Contact	2 Self wetting transfer	control inputs and 5 Voltage free change-over st	atus indicators, Form C
Ethernet		HTTP, SNMP, MODBUS TCP, Email & NTP	
Connexions	Terminals M8/M10 via gland plate	Terminals M10 via gland plate	Terminals M12/M16 via gland plate
Dimensions H x W x D	1300 x 600 x 300mm	1900 x 800 x 400mm	1900 x 1400 x 600mm
Weight	75kg - 165kg	195kg - 295kg	295kg - 490kg
Temperature		0 – 45°C	
IP rating	IP21	IP31	IP21
Detection		Digital: <1ms	
Asynchronous break time	Oms, 10ms, 50ms or Vt proportional, 0° to 180°		
Loading	0 - 100% @45°C ambient		
Device ratings	1250A _{RMS} @20kA for 1 cycle	1800A _{RMS} @28kA for 1 cycle	2650A _{RMS} @36kA for 1 cycle
Overload @40°C ambient	125% for 10min, 150% for 30s 1kA for 1s, 5kA for 0.1s 20kA for 1 cycle	125% for 10min, 150% for 30s 4kA for 1s, 8kA for 0.1s 28kA for 1 cycle	125% for 10min, 150% for 30s 5kA for 1s, 10kA for 0.1s 36kA for 1 cycle
Fault current setting		>350% peak with load fault transfer inhibit	
Safe install environment	20kA for 1 cycle - Fuseless design	28kA for 1 cycle - Fuseless design	36kA for 1 cycle - Fuseless design
Protection	Circuit breakers		
Power factor	No practical limit		
Max THDV	10% - Max allowable source voltage distortion		
Crest factor	3.5 : 1		
dV/dt max	800V/µs		
Cooling	Redundant fans		
Humidity @40°C ambient	5 – 95% non-condensing		
Regulatory approvals	IEC 62310-1,2,3 - IEC 60950 - IEC 61000-6-1,2,3,4 – CE – RCM - UL Capable - RoHS		
Standard warranty	24 months offsite repair or replacement policy		



PANEL MOUNT

Static Power's panel mount iSTS are dedicated to applications requiring a high level of reliability.

iSTS P is designed to be integrated in 3rd party switchboard or enclosure and is adaptable to all specific requirements.

Contact us for more information on iSTS P.



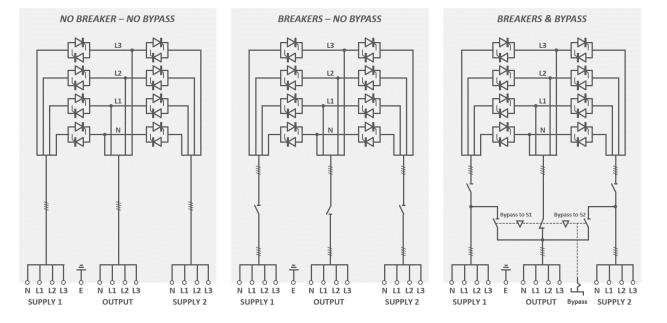
Key features:

- True solid state, Break-Before-Make transfer
- Transfer time: <1ms to ¼ cycle
- Single or Multi-feeds
- Adaptable dimensions
- Adaptable Inputs/output connexions
- w/o protections or Customer's preferred
- Automation



Breakers & Maintenance Bypass:

iSTS P can be provided with out without Breakers and/or Maintenance Bypass







Designed for rail mounted applications, the iSTS model R avoids critical manufacturing and IT equipment power supply disruptions by transparently changing to a secondary source in case of failure of the preferred. Typical applications: PLCs, CNCs, Robotics, BMS, Workshop IT, Engineering and office work stations, warehouses.



Features

- Rail mounted
- 1-phase, 2-pole, 16A
- Built-in transient voltage protection
- Very high MTBF (>500,000 hours)
- RCD site compatibility
- Safe asynchronous source transfers

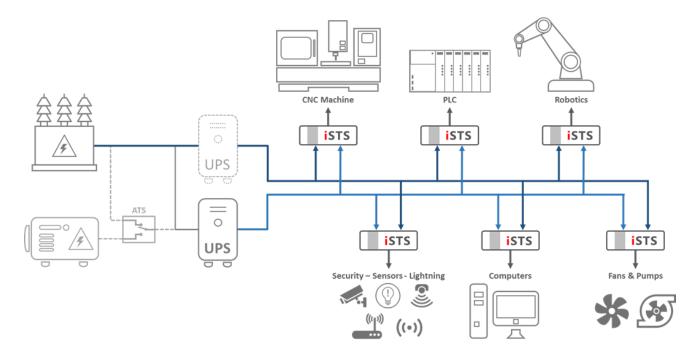
- Manual and automatic transfers selection
- Preferred source selection
- Visual and sound alarms
- Bi-colour LED mimic and load indicator
- One voltage free general alarm contact

For Building

The iSTS R can be installed in a floor/office switch board to replace individual UPSs not always reliable and difficult to maintain.

For Industry – Manufacturing - Warehousing

Typically used in a Industry 4.0 environment, the iSTS R will guarantee a continuous power supply to all PLC, CNC and controls in the workshop







Contact us

Static Power Pty Ltd ABN 42 101 765 913 ACN 101 765 913 Tel: +61 3 9437 0494 sales@staticpower.com.au www.staticpower.com.au 5, Candlebark Court Research 3095 Victoria - Australia



