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PRODUCT BROCHURE

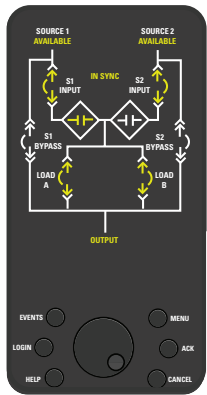
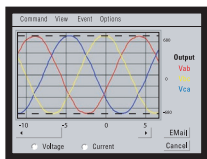
# **Cyberex® Zero Footprint (ZF)**

400–800A digital static transfer switch  
and PDU integration



# Mission Critical ZF

The Zero Footprint (ZF), similar to the Mission Critical (MC), provides redundant operation using two sources feeding one common group of output distribution devices. The ZF has dual transformers at the input of a Cyberex SuperSwitch®3 digital static transfer switch (DSTS). The output of the static switch feeds output distribution devices which may include sub-feed breakers and/or panel boards.



Navigate and control the SuperSwitch® with confidence using a rotary mouse and triple redundant system status display; active mimic panel, LCD and LED indication.



## Mission critical power switching and distribution in one integrated custom system

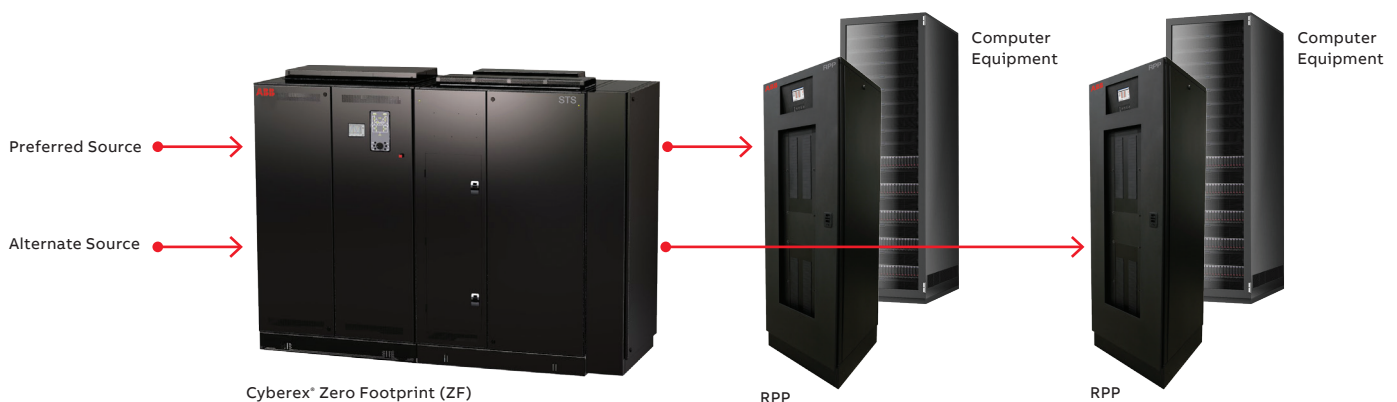
This integrated package offers a single, easy-to-install, factory-tested unit with a footprint that saves valuable floor space and avoids expensive inter-cabinet wiring.

A multitude of available distribution features and comprehensive circuit management with advanced communications provides the ultimate in design flexibility and reliability.

## Proven components and performance

- Integrated SuperSwitch®3 DSTS and special distribution ensures reliability and availability of the entire critical power system
- Operator interface is the same reliable, easy-to-use interface found in the Cyberex SuperSwitch®3 digital static transfer switch
- Dual input-positioned transformers offer ultimate redundancy and reliability
- Output distribution in separate side car cabinet offered in a wide range of configurations including removable or fixed mounted breakers and panel boards
- Software-guided breaker operation reduces possibility of operator error
- Remote communications uses standard protocols to interface with a building management system (BMS)
- Compact footprint maximizes valuable floor space and reduces power cabling costs
- Easy maintenance access means low MTTR – mean time to repair

Zero Footprint provides added reliability to any architecture



# Technical specifications

Electrical	
kVA	75–300kVA
Input	3-phase, 3-wire + ground
Input voltage	480V @ 60Hz
Output	3-phase, 4-wire + ground
Output voltage	208/120V 480/277V @ 60Hz
Transformer type	Copper, dual electrostatic shield
Transformer ratings	K-13 (standard), K-20 (optional)
Transformer efficiency	DOE 2016 compliant
Transformer temperature rise	150°C (standard), 115°C (optional)
Transformer inrush	8X (standard), 11X or 5X (optional)
Transformer compensation taps	2 1/2% (4 x FCBN, 2 x FCAN)
Transformer insulation	220°C
Neutral rating	200%
Operating conditions	
Temperature (operating)	0 to 40°C
Temperature (storage)	0 to 60°C
Transformer audible noise	<60 dBA – max.
Operating efficiency	98%
General	
SCR	Fully rated, hockey-puck type
Cooling	PDU – convection STS – dual redundant fans
LCD	Graphical user interface
STS power supplies	Triple redundant
STS internal bus	Dual redundant
STS SPD	40kAs
Communications	
Password protection	Defined user tiers
Protocol	Modbus RTU (RS-485); Modbus TCP
STS alarm notification	Email (or email to pager)
Emergency power off	Remote – standard Local – optional
STS relay contacts	5 – standard
Waveform capture	Optional
Power and event management	
Metering	kVA, kW, I <sub>peak</sub> , phase, current, voltage, frequency, power factor, kVA demand, THD, percent load, sag, surge, transient
Event alarm log	2500 events
Standards	
Safety	ETL listed to UL 891
EMC	FCC compliant (part 15)
Enclosure	NEMA 1

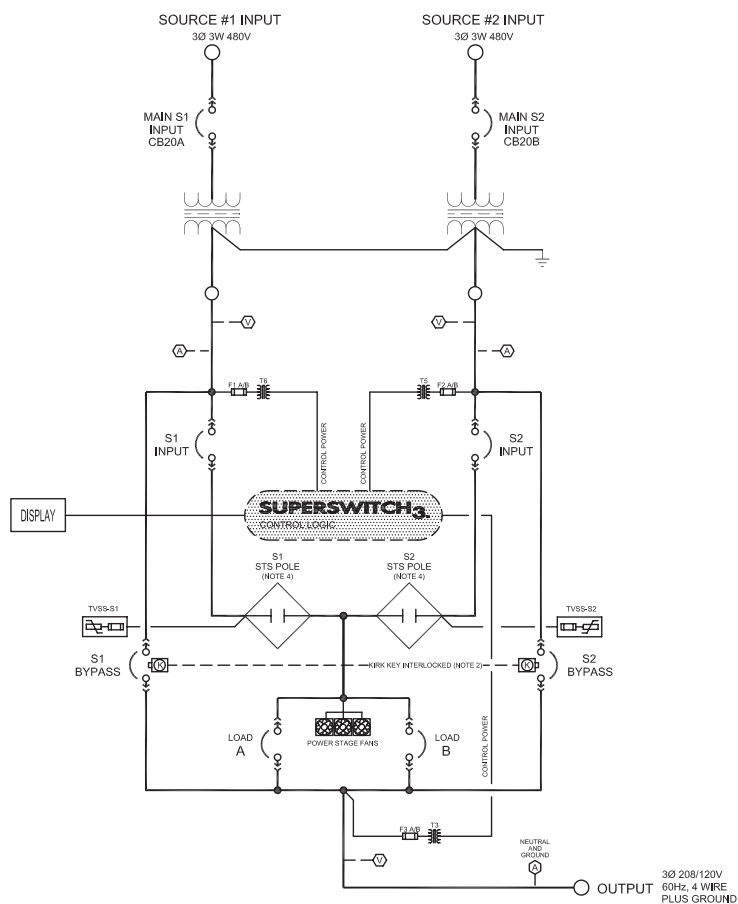
Standard	
Dual input K rated computer grade isolation transformers	
100% continuous duty rating	
Digital signal processor based, fully digital switching controls	
(6) Plug-In circuit breaker configuration	
Dual maintenance bypass design	
Redundant output distribution breakers	
Key interlocking for safety and accuracy	
Comprehensive system interface panel	
Operator guided bypass controls	
System mimic display	
LCD display	
2500 real-time event & alarm log	
Transfer counter	
Metering display of kVA, kW, I <sub>peak</sub> , phase, voltage & frequency	
Multiple layers of password protected controls	
Modbus communications interface	
Optional	
Waveform capture	
Up to (2) I-line output distribution panelboards	
Up to (4) 42 circuit output panelboards	
Output distribution breaker monitoring	
Operating parameters	
Input voltage	480V*
Output voltage	208/120V
Frequency	50 or 60Hz
Automatic sense & transfer time	Less than 4ms
*Other input voltages available as options	



Dimensions			
Output distribution (2) output breakers	kVA/Amps	Output voltage	Dimensions
Up to (10) output breakers with 10" sidecar w/I-line option	144kVA/400A 216kVA/600A	208/120V	103"W x 36"D x 78"H
Up to (20) output breakers with 34" sidecar front and rear I-line option	288kVA/800A		126"W x 36"D x 78"H



The zero footprint features two main breakers, two impedance-matched transformers and DSTS to create the ultimate mission critical system.



## Power Protection

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