



# Powerware

## Powerware® Type II Static Transfer Switch

Product Focus

200-1000A



### Features

- Patented algorithm ensures instantaneous transfers without cross connection of sources
- Redundant internal power distribution in all system control boards
- Enhanced monitoring and diagnostics enhance system availability by enabling quick response to events:
  - RS-485 interface with Modbus protocol
  - System LCD control panel
  - Alarm, history and event logs
  - System mimic panel for visual indication with an audible alarm
- Design enables maintenance without affecting power to the critical load
- Digital signal processor based for high reliability and site-adaptability
- Fuse-free, rugged, high-reliability SCR devices eliminate the need to replace fuses

Time is money as the world of business continues to move at breakneck speed. Downtime due to power problems can quickly escalate into significant lost revenue if the right infrastructure is not in place. In applications where seamless transfers of power are necessary due to the critical nature of the electrical load, the Powerware Type II Static Transfer Switch (STS) is the solution of choice. Powerware Type II STSs are high-speed open-transition switches that can transfer electrical loads from one AC power source to another in a fraction of a single electrical cycle. The Powerware Type II STS eliminates

the chance of a loss of power to critical loads by properly coordinating with the electrical distribution system. During a fault condition, the Type II STS will continue to conduct current, allowing downstream circuit breakers to work selectively.

Designed by Cyberex, an industry leader in static switch technology, the Powerware Type II STS provides state-of-the-art technology and reliability. By incorporating a Powerware STS into a facilities power infrastructure, many UPS/building system configurations become a possibility, ranging from single module reverse transfer systems up to full distributed redundant systems.

### Standard features

- 100% continuous rating
- RS-485, four-wire interface with Modbus protocol
- Emergency 180° phase transfer
- Forced air cooling on all models
- Top or bottom cable entry
- Six plug-in circuit breakers (CBs)
- Fuse-free, rugged, high-reliability SCR devices eliminate the need to replace fuses
- Total access to all power connections for infrared scans
- Design enables system maintenance without affecting power to the critical load
- Digital signal processor based, fully digital controls for high reliability and site-adaptability
- System mimic panel for visual indication with an audible alarm
- Dual maintenance bypass with two kirk keys; protected to prevent operator error during bypassing operation
- Graphical user-interface
- Alarm log, history, and event log
- Real-time event log with 10 microsecond resolution between events
- Redundant cooling with fan fail sensing
- Lowest MTTR
- Multiple levels of user, maintenance and factory password protection
- Digitally controlled system setpoints
- Transfer count-date/time stamp
- Metering: kVA, kW, I<sub>peak</sub>, phase, current, voltage, frequency

## MODEL CHART

Part Number <sup>1</sup>	Current <sup>2</sup> Amps	Voltage Volts	Access	Dimensions W"xD"xH"	BTU/Hr	Weight Lbs.
DSR020023262086N065	200	208	Front/Side/Rear <sup>3</sup>	34x34x76	2400	1200
DSR020023264806N065	200	480	Front/Side/Rear	34x34x76	2400	1200
DSR04003262086N065	400	208	Front/Side/Rear	34x34x76	3600	1200
DSR04003264806N065	400	480	Front/Side/Rear	34x34x76	3600	1200
DSR06003262086N065	600	208	Front/Side/Rear	34x34x76	4800	1400
DSR06003264806N065	600	480	Front/Side/Rear	34x34x76	4800	1400
DSR080023262086N100	800	208	Front/Side/Rear	34x46x76	6000	1800
DSR080023264806N100	800	480	Front/Side/Rear	34x46x76	6000	1800
DSR100023262086N100	1000	208	Front/Side/Rear	34x34x76	8400	2400
DSR100023264806N100	1000	480	Front/Side/Rear	34x34x76	8400	2400

1. Above units are 60 Hz applications with six (6) non-automatic circuit breakers rated 65KAIC for 200 - 600A units; 100 KAIC for 800A units. Consult factory for other configurations. 2. Ampere ratings are continuous duty 100% rated. 3. All units require 36" clearance in front, rear, and right side, per local building code.

### Options

- RS-232 communications interface with Modbus protocol
- Metering: power factor, kVA demand, harmonic analyzer
- Emergency power off (EPO); remote EPO
- Control power in bypass mode

### Product Standards

- Conforms to NEMA standards
- UL 1008 listed
- Meets IEEE c62.41 and FIPS Pub 94
- Short circuit withstand: up to 65 kA at 480V
- Temperature: 0-40°C
- Audible noise: <65 dBA @ 2 meters (600A)



**PowerChain™**  
**Management**  
**Solutions**

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