POWERWARE
UNINTERRUPTIBLE POWER SYSTEMS

Powerware® Type II Static Transfer Switch

100 to 800A

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
- Fuseless, 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 STS 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, 4 wire interface with Modbus protocol
- Emergency 180˚ phase transfer
- Convection cooled: (<600A) prevents forced air cooling fan maintenance and repair
- Top or bottom cable entry
- Six plug-in circuit breakers (CBs)
- Fuseless, 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
- Dual maintenance bypass with 4 kirk keys; protected to prevent operator error during bypassing operation
- System mimic panel for visual indication with an audible alarm
- System LCD control panel
- 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
- Digital signal processor based, fully digital controls for high reliability and site-adaptability
- Digitally controlled system setpoints
- Transfer count-date/time stamp
- Metering: kVA, kW, Ipeak, phase, current, voltage, frequency

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Model Chart

Part Number [1]	Current [2] Amps	Voltage Volts	Access	Dimensions W"xD"xH"	BTU/Hr	Weight Lbs.
DFR1032626N065	100	208	Front/Rear [3]	38x36x68	494	1100
DFR1032646N065	100	480	Front/Rear	38x36x68	1140	1100
DFR2032626N065	200	208	Front/Rear	38x36x68	988	1100
DFR2032646N065	200	480	Front/Rear	38x36x68	2279	1100
DFR2532626N065	250	208	Front/Rear	38x36x68	1235	1100
DFR2532646N065	250	480	Front/Rear	38x36x68	2849	1100
DFR4032626N065	400	208	Front/Rear	38x36x68	1975	1200
DFR4032646N065	400	480	Front/Rear	38x36x68	4559	1200
DFR6032626N065	600	208	Front/Rear	38x36x68	2963	1200
DFR6032646N065	600	480	Front/Rear	38x36x68	6838	1200
DFR8032626N065	800	208	Front/Rear	54x36x74	3951	1800
DFR8032646N065	800	480	Front/Rear	54x36x74	9118	1800
DFS1032626N065	100	208	Front/Side [4]	48X36X74	494	1200
DFS1032646N065	100	480	Front/Side	48X36X74	1140	1200
DFS2032626N065	200	208	Front/Side	48X36X74	988	1200
DFS2032646N065	200	480	Front/Side	48X36X74	2279	1200
DFS2532626N065	250	208	Front/Side	48X36X74	1235	1200
DFS2532646N065	250	480	Front/Side	48X36X74	2849	1200
DFS4032626N065	400	208	Front/Side	48X36X74	1975	1500
DFS4032646N065	400	480	Front/Side	48X36X74	4559	1500
DFS6032626N065	600	208	Front/Side	48X36X74	2963	1500
DFS6032646N065	600	480	Front/Side	48X36X74	6838	1500
DFS8032626N065	800	208	Front/Side	54x36x74	3951	1800
DFS8032646N065	800	480	Front/Side	54x36x74	9118	1800

[1] *60 Hz applications with six (6) non-automatic circuit breakers rated 65 KAIC; consult factory for other configurations*
[2] *Continuous duty 100% rating*
[3] *36" or 42" clearance required in front and rear, per local building code*
[4] *36" or 42" clearance required in front 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
- Meets IEEE c62.41 and FIPS Pub 94
- Short circuit withstand: up to 100 kA at 480 V
- Temperature: 0-40˚C
- Audible noise: <50 dBA @ 1 meter (≤400 A); <65 dBA @ 1 meter (600A)

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