



**MEGA**DySC®

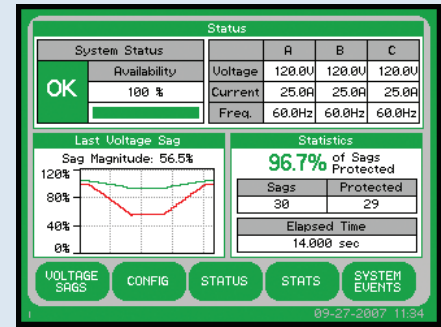
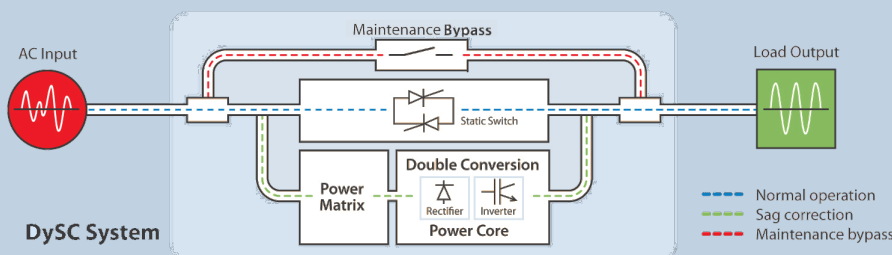
## The highest level of protection. For the entire production process.

Our MegaDySC Dynamic Sag Corrector is designed to span your entire operation, protecting every facet of the process from voltage sags and momentary outages that account for 30% of all manufacturing downtime. MegaDySC will keep your equipment online and your plant functioning smoothly, maintaining the highest levels of productivity and profitability—without the high energy costs and battery care issues of other systems.

### DySC Protection Features

- Proprietary “Double Conversion” Power Core—dCPC
- Fastest Sag Detection and Response Time
  - DySC is optimized for fast response at voltage peaks, with a typical peak voltage detect time (pVdT) of 1 ms.
  - Sags are corrected with a peak voltage response time (pVrT) of 1.5 ms—1/10th of a cycle, including detection time.
- Adaptive Frequency Management (aFM) and auto-select of ~50 Hz or ~60 Hz with advanced digital phase locked loop synchronization (PLL)
- True Sinusoidal Reconstruction (tSR)

### Theory of Operation



### Touchscreen Operator Station provides:

- EVENT LOGGING (SAG COUNTER, SAVE COUNTER, UPTIME COUNTER, REAL-TIME STATUS)
- OPERATION LOG AND DETAILS
- GRAPHIC REPORTING DISPLAY
- ONLINE DIAGNOSTICS
- PASSWORD PROTECTION
- SCREEN SIZE (5.7" on 333kVA, 15" on larger systems)

### Communication ports:

RS232, DRY CONTACTS, ETHERNET

### Ideal plant-level protection for:

- MACHINING CELLS
- PROCESS TOOLS
- ASEPTIC PACKAGING
- HIGH-SPEED BOTTLING
- PAPER MACHINES
- CONVERTING
- TRANSFER LINES
- BATCH APPLICATIONS
- PAINT LINES
- PHARMACEUTICAL
- PAPER MACHINES
- DRY EXTRUSION
- WELD LINES
- FLEXIBLE MACHINING CENTERS
- MACHINING
- WEB APPLICATIONS

### SoftSwitching Technologies®

Phone (Toll-free) 800-226-5028

Phone (Local) 608-662-7200

Fax 608-662-7300

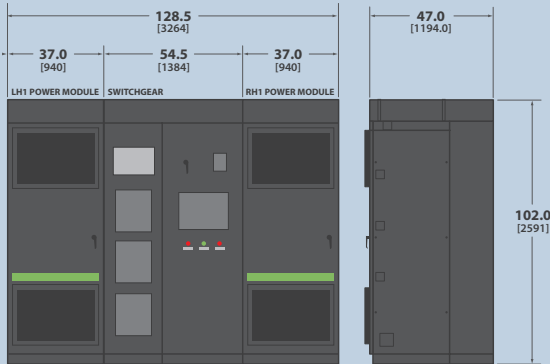
Email info@softswitch.com

Web www.softswitch.com

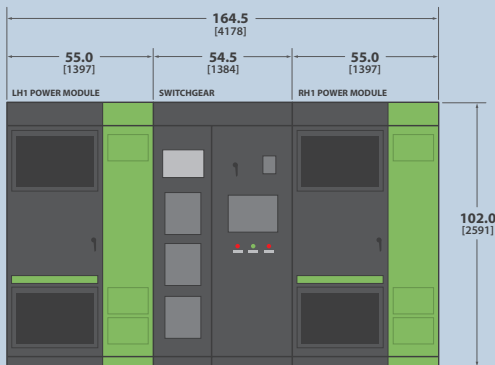
Mail 8155 Forsythia Street  
Middleton, WI 53562, USA

**Dimensions** (in inches; millimeters in brackets)

**Standard Runtime (SR) DySC:**



**Extended Runtime (ER) DySC:**



**Technical Specifications**

**Electrical Specifications (Typical)\***

<b>Input/Output Voltage</b>	380, 400, 415, 440, 460, 480
<b>Frequency</b>	50/60 Hz auto-sensing
<b>Phase (Wiring)</b>	3 phase (3- or 4-wire with ground)
<b>Detection Voltage</b>	-13% of rated input voltage
<b>Response Time</b>	.7 ms detection, 1.2 ms inverter reaction (<2 ms)
<b>Current Distortion</b>	Unchanged, determined by the load
<b>Output Current</b>	800 amps
<b>Output Capacity</b>	527–665 kVA
<b>Output Overload</b>	150% for 30 sec, 400% for 5 sec, 600% for 0.5 sec
<b>(Current)</b>	
<b>Efficiency</b>	>99%
<b>Correction Time</b>	3 phase (87% to 50% remaining): 5 sec 2 phase (30% remaining): 5 sec 1 phase (0% remaining): 5 sec 5 sec runtime in the first minute, followed by 2 sec per minute thereafter; 5 sec runtime is available again after 5 min idle. 3 phase (0% remaining): ≥ 50 ms (SR), 200 ms (ER)
<b>Waveform</b>	True sine wave

\* Specifications are typical and subject to change without notice due to continuing product improvement programs.

**Mechanical (Typical)\***

<b>Enclosure</b>	NEMA 1 (IP20), see figures for dimensions (approx.)
<b>Accessibility (Wiring)</b>	Front of panel terminations, top and bottom access
<b>Weight lbs (kg)</b>	SR: 7,800 lbs (3538 kg); ER: 8,632 lbs (3915 kg)
<b>Environmental</b>	
<b>Ambient Temp.</b>	0°–40°C (32°–104°F)
<b>Storage Temp.</b>	-40°–75°C (-40°–167°F)
<b>Relative Humidity</b>	0 to 95%, noncondensing
<b>Heat Dissipation</b>	22,900 BTU/hr. (max)
<b>Cooling</b>	Thermal controlled forced air
<b>Altitude</b>	1000 m (3,300 ft) without load derating
<b>Audible Noise</b>	<60 dBA at 1 m

**Communications/User Interface**

<b>Display</b>	Touchscreen LCD
<b>Connectivity</b>	RS232, dry contacts, Ethernet

**Compliance**

<b>Agency Approvals</b>	cULus Listed, SEMI F47
<b>Surge Suppression</b>	100 kA per mode, tested to IEEE C62.41.1/UL1449 2nd edition
<b>Warranty</b>	Standard 1 year (extended warranty available)

**Catalog Number**

