



PRO D_ySC[®]

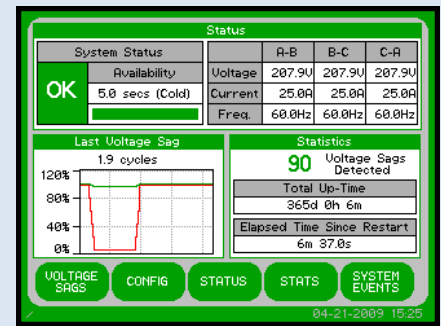
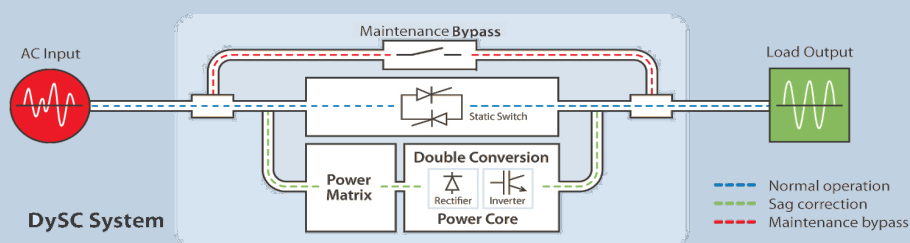
ProDySC, for machine-level protection of your process. And your peace of mind.

A split-second voltage sag may not seem like a major concern, but these unexpected events can throw carefully calibrated machines offline and account for 30% of all manufacturing downtime. The solution: ProDySC Dynamic Sag Corrector. ProDySC guards against voltage sags at the machine level of your process, without the energy costs and battery care issues of other systems. To maintain productivity and profitability, use ProDySC.

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

(Touchscreen diagonal = 5.7")

Communication ports:

RS232, DRY CONTACTS

Ideal machine-level protection for:

MULTIPLE COMPONENTS

CONTROL PANELS

ROBOTS

OVENS

CNC

EXTRUDERS

PUMPS

PACKAGING MACHINES

FILLERS

DRYERS

MATERIAL HANDLING

SERVOS

VFDs

TRANSFER LINES

PALLETIZERS

SoftSwitching Technologies[®]

Phone (Toll-free) 800-226-5028

Phone (Local) 608-662-7200

Fax 608-662-7300

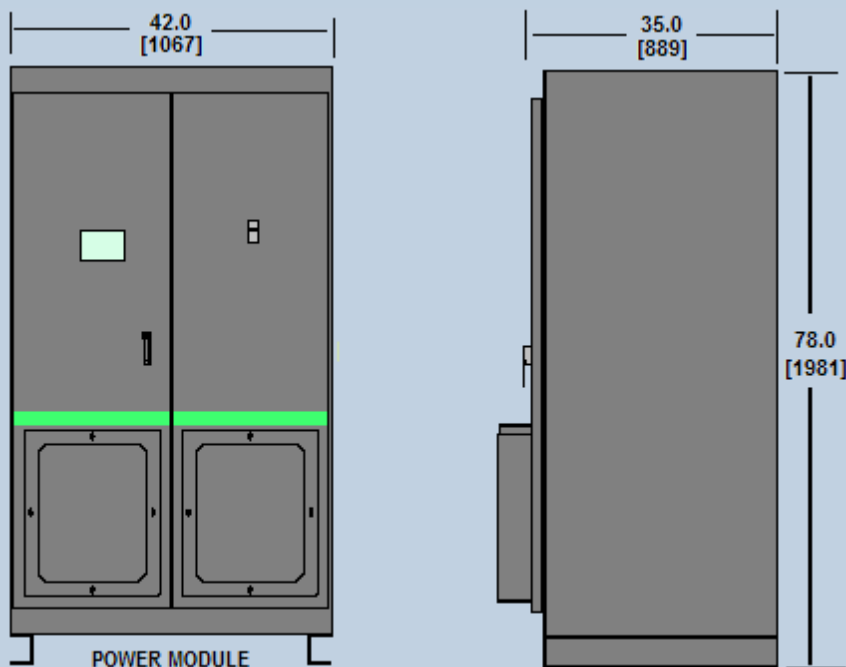
Email info@softswitch.com

Web www.softswitch.com

Mail 8155 Forsythia Street
Middleton, WI 53562, USA

Dimensions (in inches; millimeters in brackets)

Standard Runtime (SR) DySC



Note: External bypass required for maintenance and servicing

Technical Specifications

Electrical Specifications (Typical)*

Input/Output Voltage	200, 208, 220, 230, 240, 380, 400, 415, 440, 460, 480
Frequency	50/60 Hz auto-sensing
Phase (Wiring)	3 phase (3- or 4-wire with ground)
Detection Voltage	-13% of rated input voltage
Response Time	.7 ms detection, 1.2 ms inverter reaction (<2 ms)
Current Distortion	Unchanged, determined by the load
Output Current	200 amps
Output Capacity	69–166 kVA
Output Overload	150% for 30 sec, 400% for 5 sec, 600% for 0.5 sec (Current)
Efficiency	>99%
Correction Time	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)
Waveform	True sine wave

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

Mechanical (Typical)*

Enclosure	NEMA 1 (IP20), see figures for dimensions (approx.)
Accessibility (Wiring)	Front of panel terminations, top and side access
Weight lbs (kg)	1630 lbs (741 kg)

Environmental

Ambient Temp.	0°–40°C (32°–104°F)
Storage Temp.	-40°–75°C (-40°–167°F)
Relative Humidity	0 to 95%, noncondensing
Heat Dissipation	2,800 BTU/hr. (max)
Cooling	Thermal controlled forced air
Altitude	1000 m (3,300 ft) without load derating
Audible Noise	<55 dBA at 1 m

Communications/User Interface

Display	Touchscreen LCD
Connectivity	RS232, dry contacts

Compliance

Agency Approvals	cULus Listed, SEMI F47
Surge Suppression	25 kA per mode, tested to IEEE C62.41.1/UL1449, 2nd edition
Warranty	Standard 1 year (extended warranty available)

Catalog Number

