



## PRO DySC®

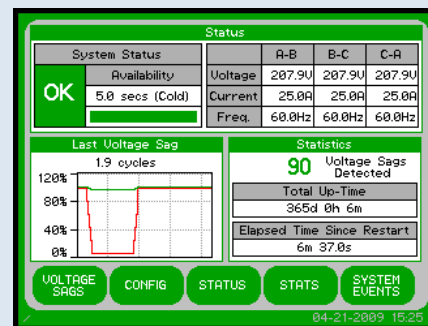
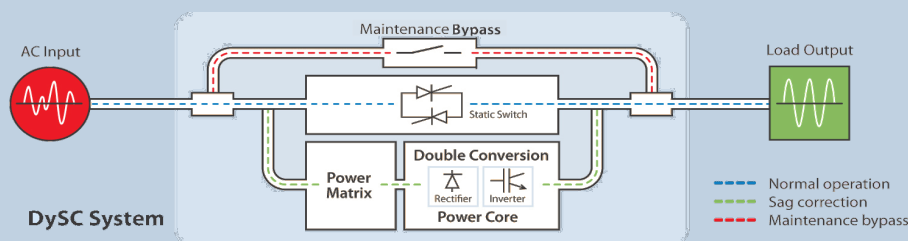
### ProDySC, for machine-level protection of your process. And your peace of mind.

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:

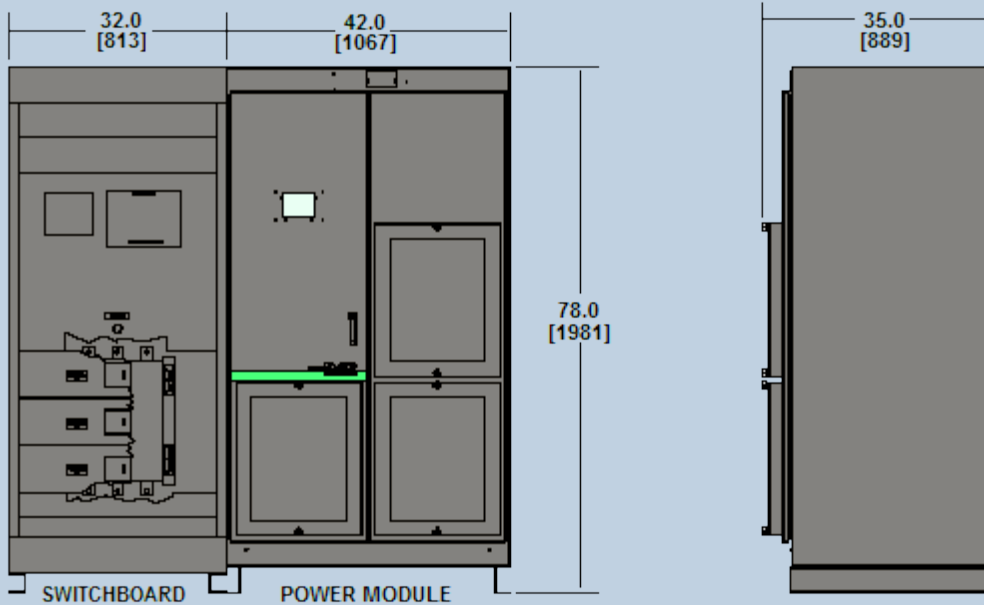
- MULTIPLE COMPONENTS
- CONTROL PANELS
- ROBOTS
- OVENS
- CNC
- EXTRUDERS
- PUMPS
- PACKAGING MACHINES
- FILLERS
- DRYERS
- MATERIAL HANDLING
- SERVOS
- VFDs
- TRANSFER LINES
- PALLETIZERS

#### SoftSwitching Technologies®

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

Standard/Extended Runtime (SR & ER) DySC



**Technical Specifications**

**Electrical Specifications (Typical)\***

<b>Input/Output Voltage</b>	200, 208, 220, 230, 240, 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>	200 amps
<b>Output Capacity</b>	69–166 kVA
<b>Output Overload</b>	150% for 30 sec, 400% for 5 sec, 600% for 0.5 sec ( <i>Current</i> )
<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, bottom and side access
<b>Weight lbs (kg)</b>	SR: 2400 lbs (1091 kg); ER: 2580 lbs (1173 kg)

**Environmental**

<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>	2,800 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>	<55 dBA at 1 m

**Communications/User Interface**

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

**Compliance**

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

**Catalog Number**

