

# Secondary Distribution Centers (SDC)

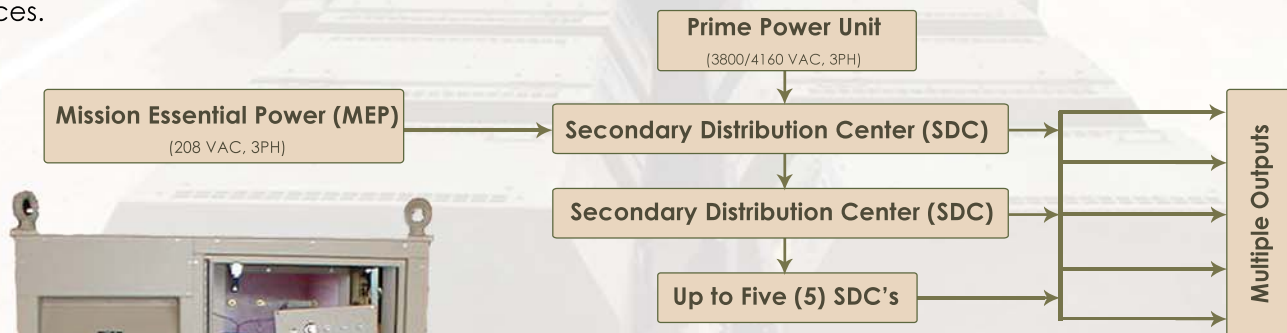
PD Systems offers a wide range of Secondary Distribution Centers (SDC) in various input and output voltages.

## Secondary Distribution Center, 4160 VAC Version

The Secondary Distribution Center (SDC) accepts primary power and reduces the voltage for distribution. Primary power can be either from a commercial power plant, diesel engine driven prime power generator sets, or from another SDC. The SDC is designed to accept primary power at 4160VAC, 60Hz, or 3800VAC, 50 Hz, 3-phase from any source utilizing Loadbreak Elbows and reduce the voltage (via a 150kVA transformer) to 120/208 VAC, 50/60Hz, 3-phase for distribution.

The SDC is used to provide power for equipment, such as airfield lighting, shelters, hangars, remote area lighting systems and other related equipment requiring 120/208VAC electrical power. It is used to provide power for equipment requiring 120/208VAC electrical power. The SDC is also equipped with two (2) additional sets of Medium Voltage Output Loadbreak Elbow connections (bushing wells). These connections are used for parallel operations with additional SDCs, forming a common bus.

In the event of loss of 4160 or 3800 volts primary power, the SDC can accept secondary power from an emergency power generator, called a Mission Essential Power (MEP) generator set. MEP generators feed through a circuit breaker to the secondary bus. The breaker is interlocked to prevent inadvertently feeding the secondary bus from two power sources.



The SDC is Energy Star Compliant; using ultra efficient transformer and utilizes convection cooling system / no parasitic loads.

### Secondary Distribution Centers

NSN: 6110-01-168-8077 PDS P/N: PDSYS-SDC-150

|   |  |
|---|--|
| <p><b>Power Characteristics</b></p> <p><b>Input:</b> 4160 VAC/3-Phase/60Hz or 3800 VAC/3-Phase/50Hz or 208Y VAC/3-Phase/60HZ</p> <p><b>Output:</b> 208Y/120 VAC/3-Phase 60/50Hz 3-wire or 208Y/120 VAC/3-Phase 60/50Hz 4-wire</p> <p><b>Power Ratings:</b> 150 kVA; 416 AMPS</p> <p style="text-align: center;"><b>Temperature Range</b></p> <p><b>Operating:</b> -25°F to +125°F</p> <p><b>Storage:</b> -65°F to +150°F</p> <p style="text-align: center;"><b>Dimensions</b></p> <p>L 60.56 in X W 47.63 in X H 71.88 in; 2,450 lb</p> | <p><b>Output Connections</b></p> <p><b>Output Receptacles:</b> 16 - 60 Amp</p> <p><b>Output Convenience Receptacles:</b> 2 - 15 Amp</p> <p><b>MEP Input Connectors:</b> 1 - 200 Amp</p> <p><b>Load Break Elbow Input Connectors:</b> 9 - 200 Amp</p> <p style="text-align: center;"><b>Optional Output Connections</b></p> <p>Part Number: PDSYS-SDC150-8/4<br/>(Quantity: 8, 60 A output receptacles; Quantity: 4, 100 A output receptacles)</p> <p>Part Number: PDSYS-SDC150-10/2<br/>(Quantity: 10, 60 A output receptacles; Quantity: 2, 100 A output receptacles)</p> |
|---|--|

For more information on SDC, contact Mazen Badr, Vice President and General Manager

Email: mbadr@pd-sys.net | Phone: 703.778.3515 | Fax: 703.778.7285 | Web: www.pd-sys.net

