



PECO II®

Single-Bay 1,200 Amps @ -48VDC
Multi-Bay 9,600 Amps @ -48VDC

163 Power System



- ▶ 1,200 Amps per bay – Up to 12, 100 Amp switchmode rectifiers can be installed
- ▶ 9,600 Amp power system – Up to eight bays can be connected in parallel
- ▶ Single and 3 phase configurations
- ▶ Self-contained power, distribution, and monitoring – Operates as an all-inclusive power solution
- ▶ Customized distribution – Each bay can be equipped with up to four panels. Nine different fuse and circuit breaker panel options are available
- ▶ Simple controller – Easy to navigate, pushbutton controller has two lines of text to allow plant monitoring and control
- ▶ Remote monitoring – The plant is accessible via the Internet, LAN, or WAN connection when equipped with an optional Gateway® card and GUI screens
- ▶ SNMP compliant
- ▶ Small footprint – 23.62" by 23.62" (600mm by 600mm)



■ ■ PRODUCT DESCRIPTION

The 163 is a self-contained, expandable, power and distribution solution. To meet the specific needs of a site, customized distribution is available by combining up to four of the nine available circuit breaker and fuse panels.

The controller on the front of the 163 allows the user to easily navigate plant menus to view status information, change setpoints, or monitor alarms. The system passes active status information via a CAN bus, ensuring that real-time information is available. Each system can be connected to a LAN, WAN, or the Internet, allowing staff to view plant status or make adjustments remotely. In addition, up to 24 alarms can be extended to office monitoring equipment via relay contacts.

Up to eight 163 bays can be connected in parallel, providing up to 9,600 Amps @ -48VDC.

■ ■ SPECIFICATIONS

INPUT

Voltage Range (220VAC)	176 - 265VAC, single or 3-phase
Voltage Range (480VAC)	320 - 530VAC, single or 3-phase
Frequency	45 - 63Hz
Current Single Phase (220VAC)	80A typical, 100A max @ 100% load per rectifier shelf
Current Single Phase (480VAC)	46A per phase typical, 58A max @ 100% load per rectifier shelf
Current 3-Phase (208VAC)	40A typical, 66A max @ 100% load per rectifier shelf
Current 3-Phase (480VAC)	23A per phase typical, 38A max @ 100% load per rectifier shelf

OUTPUT

Voltage Range	50 - 60VDC
Current	100A per rectifier 1200A per bay

ENVIRONMENTAL

Storage Ambient	-40°F to +158°F (-40°C to +70°C)
Operating Ambient	23°F to 122°F (-5°C to +50°C)
Humidity	< 95% non-condensing
Heat Dissipation	31,200 BTU/bay at full load

MECHANICAL

Dimensions, Fully Equipped	84"H x 23.62"D x 23.62"W
Weight	950 lbs.
Cooling	Front to rear variable speed fans in rectifier modules

DOCUMENTATION

Product Manual	4380192PD
J Drawing	J-438163P

■ ■ POWER SYSTEM CONTROLLER FEATURES



- ▶ 2-line x 16 character backlit LCD
- ▶ Front panel status indicators
- ▶ 4-button navigation
- ▶ 8 alarm extension relays
- ▶ Audible alarm with cutoff

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