



# PECO II®

1200 Amps @ +24V or -48V

## BD Series - Bulk Output Power Systems



- ▶ 1200 Amp bulk output
- ▶ Can be used with existing distribution, saving equipment and installation costs
- ▶ Modular design lowers installed first cost
- ▶ Full featured controller
- ▶ Ethernet connectivity
- ▶ Enhanced battery health features
- ▶ 92% efficient
- ▶ +24VDC or -48VDC outputs available



### ■ ■ PRODUCT DESCRIPTION

The BD Series of bulk output power systems provide the user with a cost effective way to update aging power systems with new technology. The BD can be easily migrated into existing power line-ups, utilizing installed distribution bays. This provides unprecedented cost savings over installing an entirely new power system. This method also saves installation time by reducing the hot circuit cutovers that are necessary when re-sourcing distribution.

- ▶ Bulk output
- ▶ Using an overhead bus, systems can be paralleled up to 3600 Amps
- ▶ Individual AC inputs
- ▶ 23" mounting
- ▶ Front access, rack mount battery trays available
- ▶ Rectifier shelves can easily be added in the field
- ▶ 24 status LED's
- ▶ 16 alarm extension relays
- ▶ Battery temperature compensation
- ▶ Controlled battery recharge
- ▶ Over current alarm (thermal runaway)
- ▶ +24VDC or -48VDC output available
  - +24Vsystem uses 100 Amp switchmode rectifiers
  - -48V system uses 50 Amp switchmode rectifiers
- ▶ Rectifier and plant output test jacks
- ▶ NEBS Level 3 compliant

### ■ ■ APPLICATIONS

- ▶ The BD Series can be used to replace aging power systems, while utilizing existing distribution at the site.
- ▶ For new installations, the BD series can be used as a bulk output solution to feed primary distribution.
- ▶ Suitable for central office, data center, switch site, or MSO.

## ■ ■ SPECIFICATIONS

### INPUT

<b>Voltage Range</b>	120/208/240 VAC
<b>Frequency</b>	45-65 Hz
<b>Current</b>	14AAC typical 19A AC max per rectifier
<b>Customer Provided Protection</b>	25A, 2-Pole CB per rectifier

### OUTPUT

<b>Voltage Range (+24VDC)</b>	23.5V – 28.5V
<b>Current (+24VDC)</b>	100A per rectifier
<b>Efficiency (+24VDC)</b>	90% full load

<b>Voltage Range (-48VDC)</b>	42.0V – 59.5V
<b>Current (-48VDC)</b>	50A per rectifier
<b>Efficiency (-48VDC)</b>	92% full load

### NOISE

<b>Voice Band</b>	< 32dBnc (with battery)
<b>Wide Band</b>	< 100 mVrms (10-20MHz) / < 250mV peak to peak (0-100MHz)
<b>Acoustic</b>	< 55dB

### ENVIRONMENTAL

<b>Storage Ambient</b>	-40°F to +185°F (-40°C to +85°C)
<b>Operating Ambient</b>	+23°F to +122°F (-5°C to +50°C)
<b>Humidity</b>	< 95% non-condensing
<b>Heat Dissipation</b>	750 BTU/hr per rectifier module at full load

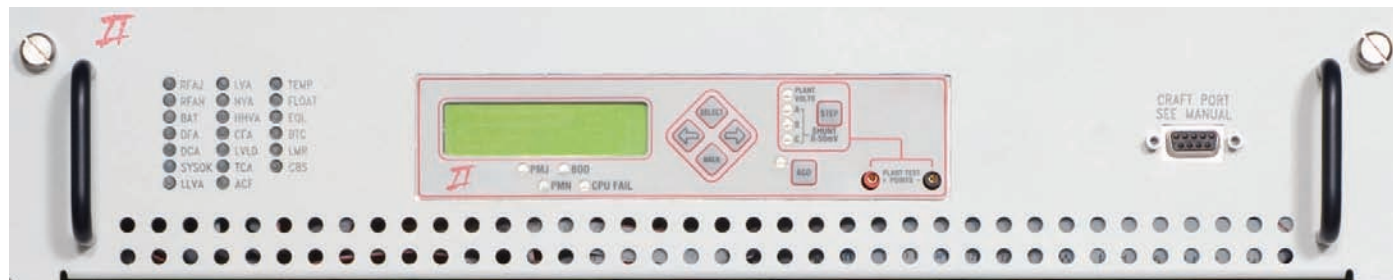
### MECHANICAL

<b>Dimensions, Fully Equipped</b>	+24V: 14.0" -48V: 24.5"
<b>Weight, Fully Equipped</b>	+24V: 150 lbs -48V: 275 lbs
<b>Cooling</b>	Front to rear fans in rectifier module

### DOCUMENTATION

<b>Product Manual</b>	+24V: 438128BDPD -48V: 438129BDPD
<b>J Drawing</b>	+24V: 438128BD -48V: 438129BD

## ■ ■ POWER SYSTEM CONTROLLER FEATURES



- ▶ Front panel craft port
- ▶ 2-line x 16 character backlit LCD
- ▶ Front panel status indicators
- ▶ Redundant PMJ, PMN, BOD, CPU fail functions
- ▶ 4-button navigation
- ▶ Test jacks
- ▶ 16 configurable alarm extension relays
- ▶ Audible alarm with cutoff
- ▶ Ethernet connectivity standard