



PECO II®

200 Amp Ferroresonant
Rectifier @ -48VDC

3874B



- ▶ 220 or 480VAC, 3-phase input voltage
- ▶ 250 Amp AC input circuit breaker
- ▶ Positive/negative load sharing
- ▶ Remote/local control
- ▶ Front access design
- ▶ Analog Volt/Amp metering
- ▶ Complies with Bell Standards
- ▶ Complies with GTE Standards
- ▶ CSA certified



■ ■ PRODUCT DESCRIPTION

The PEC3874B ferroresonant rectifier floats or equalizes lead-acid battery strings of 23 or 24 cells comprised of either the wet or sealed battery design. The rectifiers will facilitate positive or negative load share when used together in a system. An AC input circuit breaker is equipped on the front of the PEC3874B for protection, or to allow the user to easily power down the unit. Analog meters are provided to monitor voltage and current of the rectifier. The reduced overall size of each unit allows more rectifiers to be installed in a given space. Conduit knockouts located on both the top and front of the unit allow installation flexibility. The controlled ferroresonant design of this product provides an efficient and cost effective approach to power conversion with the benefits of enhanced reliability, reduced TIF and RFI, improved power factor, and high immunity to transients.

This rectifier may be used in the following systems:

- ▶ 165P
- ▶ 151N-A1
- ▶ 165PC
- ▶ Any distribution bay or system requiring rectifier power

■ ■ SPECIFICATIONS

INPUT

Voltage Range (220VAC)	187 – 254VAC, 3 phase
Voltage Range (480VAC)	424 – 508VAC, 3 phase
Frequency	57 – 63Hz
Current (220VAC)	38A maximum
Current (480VAC)	19A maximum

OUTPUT

Voltage Range	48 - 57VDC
Current	200A
Efficiency	> 91%

NOISE

Voice Band	< 38dBmC
Wide Band	< 200mV peak to peak
Acoustic	< 55dB

ENVIRONMENTAL

Storage Ambient	-40°F to +185°F (-40°C to +85°C)
Operating Ambient	+32°F to +122°F (0°C to +50°C)
Humidity	< 95% non-condensing
Heat Dissipation	4595 BTU/hr

MECHANICAL

Dimensions, Fully Equipped	84"H x 15"D x 12.94"W
Weight	735 lbs.
Cooling	Convection

DOCUMENTATION

Product Manual	6424398
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■ ■ INDICATORS, ALARMS & CONTROLS

INDICATORS & ALARMS

LED Description	Name	Color
Input Power On	AC ON	Green
Output Capacitor Charged	CAP CHARGE	Red until charged
Equalize Mode	Equalize	Amber
Test Mode	TEST	Amber
RFA Alarm	CFA/RFA	Red
High Voltage Reset Enabled	HV Reset	Amber

CONTROLS

Remote Sense Voltage Control
 Output Capacitor Pre-charge Switch
 Test Mode Switch
 Internal High Voltage Shutdown
 External High Voltage Shutdown
 Remote On
 Remote Off
 Remote Restart
 Over Temperature Shutdown

EXTENDED ALARMS

Rectifier Fail Alarm
 Low Output Alarm
 Power Minor

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