

200 Amp Ferroresonant Rectifier @ -48VDC

PEC3874B



Now With Load Sharing to Other Major Brands

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, while conduit knockouts located on both the top and front of the unit allow for 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.

- 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
- UL Listed and CSA Certified
- NEBS Approved

This rectifier may be used in the following systems:

- 165P • 151N-A1
- 165PC

Any distribution bay or system requiring rectifier power

Specifications

Input	220VAC	480VAC
Voltage Range	187 - 254VAC, 3 Phase	424 - 508VAC, 3 Phase
Frequency	57 - 63Hz	
Current	38 Amps max.	19 Amps max.

Output	
Float Voltage Range	48 - 57VDC. Factory set @ 54.0VDC
Current	200 Amps
Efficiency	88.5% typical

Noise	
Voice Band	<38dB _{rnC}
Wide Band	<200mV peak to peak
Acoustic	<55dB



200 Amp Ferroresonant Rectifier @ -48VDC

PEC3874B

Environmental

Storage Ambient	-40°F to +185°F (-40°C to +85°C)
Operating Ambient	
Sea Level to 4,800 ft.	32°F to 122°F (0°C to 50°C)
4,800 ft. to 7,000 ft.	32°F to 113°F (0°C to 45°C)
7,000 ft. to 10,000 ft.	32°F to 104°F (0°C to 40°C)
Humidity	95% non-condensing, maximum
Heat Dissipation	4595 BTU per hour @ 100% load

Mechanical

Height	84" (265.9mm)
Width	12.94" (132.3mm)
Depth	15" (402.3mm)
Weight	735 lbs (9.1kg)
Mounting	Floor
Cooling	Convection

Documentation

	220VAC	480VAC
Product Manual	6064228	6424398
System Layout Drawing	6064228	6064229

Visual Indicators, Alarms & Controls

Visual Indicators and 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

Extended Alarms

Rectifier Fail Alarm
 Low Output Alarm
 Power Minor

Controls

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

200 Amp Ferroresonant Rectifier @ -48VDC

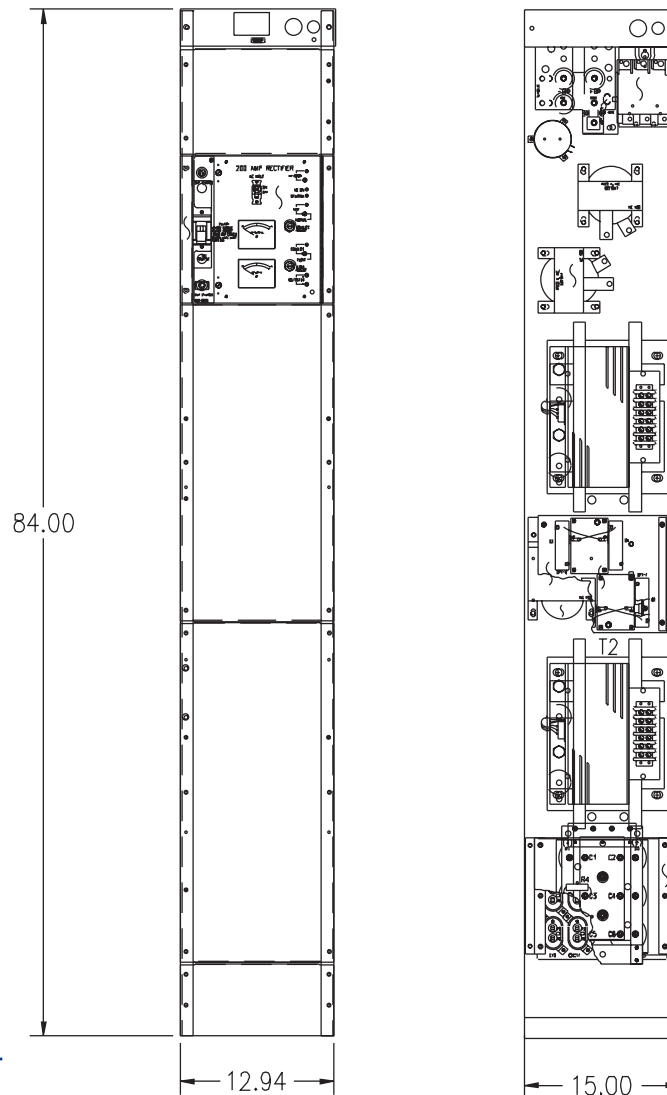
PEC3874B

Options

Description	PECO II Part Number
3874B-L21, 200 Amp ferro rectifier with 220VAC input6064228
3874B-L22, 200 Amp ferro rectifier with 480VAC input6064229

Line Drawing

PEC3874B L21 is shown



Certifications:

