



# PECO II®

400 Amp Ferroresonant  
Rectifier @ -48VDC

3875B



- ▶ 220 or 480VAC, 3-phase input
- ▶ Universal load sharing
- ▶ Test mode
- ▶ Front access
- ▶ Analog Volt/Amp metering
- ▶ DC output fuse
- ▶ Complies with Telcorida standards
- ▶ CSA certified



## ■ ■ PRODUCT DESCRIPTION

The PEC3875B controlled ferroresonant rectifier floats lead-acid battery strings of 23 or 24 cells comprised of either the wet or VRLA battery design and supplies current to the load. PECO II's universal load sharing circuit allows the rectifier to proportionally load share with ALL major brands of control ferro rectifiers making it an excellent choice for adding to or replacing rectifiers at a site. Local AC On/Off, DC output fuse, Float/Equalize and test switches, voltage and current meters along with adjustments for float and equalize voltages are provided to facilitate installation, operation and maintenance. PECO II's universal controller interface allows the rectifier to work with a variety of conventional and intelligent interfaces (**PECO II, Marconi, Tyco, etc.\***). Connectors accept standard interface cables for **Tyco CCS, MCS** and **Galaxy\*** (pending) controllers. 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 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 with all makes and models of -48V power plants.

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## ■ ■ SPECIFICATIONS

### INPUT

<b>Voltage Range (220VAC)</b>	187 – 254VAC, 3 phase
<b>Voltage Range (480VAC)</b>	424 – 508VAC, 3 phase
<b>Frequency</b>	57 – 63Hz
<b>Current (220VAC)</b>	76A maximum
<b>Current (480VAC)</b>	38A maximum

### OUTPUT

<b>Voltage Range</b>	48 - 57VDC
<b>Current</b>	400A
<b>Efficiency</b>	> 91%

### NOISE

<b>Voice Band</b>	< 38 dBrnC
<b>Wide Band</b>	< 200mV peak to peak
<b>Acoustic</b>	60dBa

### ENVIRONMENTAL

<b>Storage Ambient</b>	-40°F to +185°F (-40°C to +85°C)
<b>Operating Ambient</b>	+32°F to +122°F (0°C to +50°C)
<b>Humidity</b>	< 95% non-condensing
<b>Heat Dissipation</b>	7500 BTU/hr

### MECHANICAL

<b>Dimensions, Fully Equipped</b>	84"H x 15"D x 25.94"W
<b>Weight</b>	1450 lbs.
<b>Cooling</b>	Convection

### DOCUMENTATION

<b>Product Manual</b>	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
Temporary Release	TR	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  
 Over Temperature Shutdown

### EXTENDED ALARMS

Rectifier Fail Alarm  
 Low Output Alarm  
 Power Minor

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