

Rectifier

BULLETIN: 01.160/a
MARCH 2001

48 VDC 800 AMP CONTROLLED FERRORESONANT



Model No. **Spec. No.**
PEC 3876-L22 **6063876P**

- COMPLIES WITH GTE STANDARDS
- UL LISTED AND CSA CERTIFIED
- 93+% EFFICIENCY
- ANALOG VOLT / AMP METERING
- 480 VAC, 3 PHASE INPUT VOLTAGE
- POSITIVE / NEGATIVE LOAD SHARING
- REMOTE / LOCAL CONTROL
- FRONT ACCESS DESIGN
- FREE STANDING "SLIM LINE" CONSTRUCTION

DESCRIPTION: This Rectifier is designed to supply current to the load and Float or Equalize flooded or valve regulated lead-acid battery strings of 23 or 24 cells. The reduced overall size of the rectifier allows more rectifiers to be installed in a given space. The Controlled Ferroresonant design 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.

TECHNICAL SPECIFICATIONS ELECTRICAL

OUTPUT

Voltage: -54.00 VDC (factory)
 -48.00 VDC (minimum)
 -60.00 VDC (maximum)
Regulation: ±0.5% (static) ±5% (dynamic)
Current: 800 Amp DC (nominal)
 820 Amp DC (limit)
Output Protection: 1200 Amp Fuse
Parallel Operation: Yes
Heat Release: 12,500 BTU/Hr
Recommended Cable Size: (2) 500 MCM

INPUT

Voltage : (Nominal) VAC 480
 (Minimum) VAC 432
 (Maximum) VAC 528
Current : (Nominal) VAC 58
 (Maximum) VAC 65
Efficiency: 93.5% typical
TIF: 24
IT Product: 1400
Input Fuse Pre Phase:
(Slow-Blow) 90 Amp
Power Factor: 97%
Frequency: 60 ±3Hz
Power: 40 KW
Phases: 3
Recommended Cable Size: 2 gauge

NOISE

Voice Band: 32 dbrnC on 3,200 AH battery
Wide Band: 250 mv peak-to-peak
Acoustic: 63 dbA @ 5 ft. typical

METERING

Output Voltage: 75 VDC (maximum)
Accuracy: ±2% analog
Output Current: 1000 Amp DC (maximum)
Accuracy: ±2% analog

VISUAL INDICATORS/ALARMS

Input Power On: green
Output Capacitor Charged: red (Until Charged)
High Voltage Shutdown: red
Equalize Mode: yellow
Test Mode: yellow
Input Device Closed: switch
Output Device Closed: circuit breaker
Fuse Alarm: red
Rectifier Fail Alarm: red
Contacts: 1 form A (GRD SIG)
Low Output Current:
Contacts: 1 form A
Setting: 8 Amp DC 1 form C

CLICK TO EXIT



CONTROLS

Remote Sense Voltage Control: yes
 Output Capacitor Precharge Switch: yes
 Test Mode Switch: yes
 Float Adjust Range: 48–60 VDC
 Setting: 54.00 VDC
 Equalize Adjust Range: 50–60 VDC
 Setting: 55.20 VDC
 Load Sharing: 0.25 VDC @ no load
 8 VDC @ full load
 (negative), or
 10 VDC @ no load
 2 VDC @ full load
 (positive)

Rectifier Status: yes
 Internal High Voltage Shutdown: yes
 Setting: 56.0 VDC
 Lockout: yes
 External High Voltage Shutdown: yes
 Remote Rectifier Shutdown: yes
 Remote On: yes
 Remote Off: yes
 Partial Load: yes
 Automatic Restart: yes
 Remote Equalize: yes

MECHANICAL

Width: 36.00 in. (914 mm)
 Depth: 15.00 in. (381 mm)
 Height: 84.00 in. (2134 mm)
 Front Access Design: yes

Cable Entrance: Input: top
 Output: top

Lug Mounting: 2 holes 3/8" on 1" Center
 Weight: 1800 lbs (809 kg)
 Colors: blue/gray (other colors are available – consult factory)
 Finish: spattered vinyl

DOCUMENTATION

Instruction Manual: 6423876P
 Mechanical Drawing: 6063876P

ORDERING INFORMATION

<u>Part Number</u>	<u>Spec. Number</u>
6063876P	PEC 3876-L22 480 VAC input
4320604P	Drilling template for floor mounting

ENVIRONMENTAL TEMPERATURE

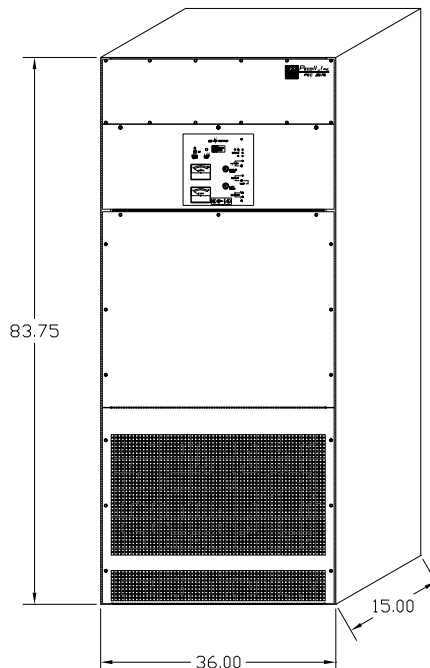
	<u>MINIMUM</u>	<u>MAXIMUM</u>
Storage Ambient:	-40°F (-40°C)	185°F (85°C)
Operating Ambient :		
Sea Level to 4800 ft.	32°F (0°C)	122°F (50°C)
4800 ft. to 7000 ft.	32°F (0°C)	113°F (45°C)
7000 ft. to 10,000 ft.	32°F (0°C)	104°F (40°C)
Humidity:	95% noncondensing (maximum)	

SPARE PARTS

<u>Part Number</u>	<u>Description</u>
6063876PK	PEC 3876-L22 Spare Parts Kit

Specifications are subject to change without notice.
 Please contact our website for the latest version.

OUTLINE DRAWING



CLICK TO EXIT

