

PECO II®

827E Inverter System



- ▶ -48V input, scalable up to 28.8KVA @ 120VAC
- ▶ +24V input scalable up to 3600VA @ 120VAC
- ▶ Hot-swappable, redundant inverter modules
- ▶ Modular design lowers installed first costs
- ▶ Compact depth of 15" allows for large range of placement options
- ▶ True sine wave output
- ▶ Voltage THD less than 3%
- ▶ Patented forced load share without LSO
- ▶ Quickly back up and restore system configuration
- ▶ Dial-up access with optional modem
- ▶ Optional equipment includes Maintenance Bypass, AC Distribution panel

PRODUCT DESCRIPTION

SYSTEM SOLUTIONS

The 827E is an N+1 redundant and expandable source of AC power for the telecommunications industry. The highly reliable AC power output is robust enough to handle linear and nonlinear loads with low power factors or high crest factors such as personal computers, servers, and modems. Inverter modules operating in parallel eliminate the need for a second AC source of power.

COMPACT SCALABLE DESIGN

A complete system requires only 5 RU's of space. It can be configured with a minimum of inverter units sized to meet the immediate need, and grown only as required. This allows for low first costs, but retains expandability to serve future needs. Combined with user defined input choices and a conservative foot print (8.75"H x 15"D), the market leading 827E is able to adapt to varying needs and requirements.

APPLICATIONS

INPUT VOLTAGE CHOICES

The 827E can be purchased with +24VDC or -48VDC input. This feature broadens the range of applications to include both wireline and wireless applications. The +24VDC solution is sized to support various cell site applications including wireless backhaul. The +24VDC version of the 827E can provide 3.6KVA of 120VAC. The -48VDC product is designed to utilize the local -48VDC power supply. Its scalable architecture can serve applications requiring as much as 28.8KVA of 120VAC in a 4 shelf arrangement.

SERVICE APPLICATIONS

The 827E can be used anywhere high quality 120VAC is needed. Applications may include any of the following:

- ▶ Central Office
- ▶ Wireless base station
- ▶ CCTV
- ▶ Critical servers, PC's, modems and gateway devices
- ▶ On premise telephone systems
- ▶ Gate and Card Readers
- ▶ HVAC facility management controllers
- ▶ Diagnostic and test equipment

■ ■ SPECIFICATIONS

INPUT

	-48V	+24V
Voltage Range	-42 to -60VDC	+21 to +32VDC
Current	35Amps per inverter	35Amps per inverter
Recommended input fuse/Breaker per inverter module	50/40	50/40

OUTPUT

Voltage	120VAC	120VAC
Frequency	60Hz	60Hz
Current	1200W per inverter 7200W per shelf 28.8KW per system	600W per inverter 3600W per shelf 3600W per system

ENVIRONMENTAL

Storage Ambient to 4800 ft.	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)
Operating Ambient to 4800 ft.	-40°F to +149°F (-40°C to +65°C)	-40°F to +149°F (-40°C to +65°C)
Humidity	< 95% non-condensing	< 95% non-condensing
Heat Dissipation (BTU/hr per inverter module at full load)	778	389

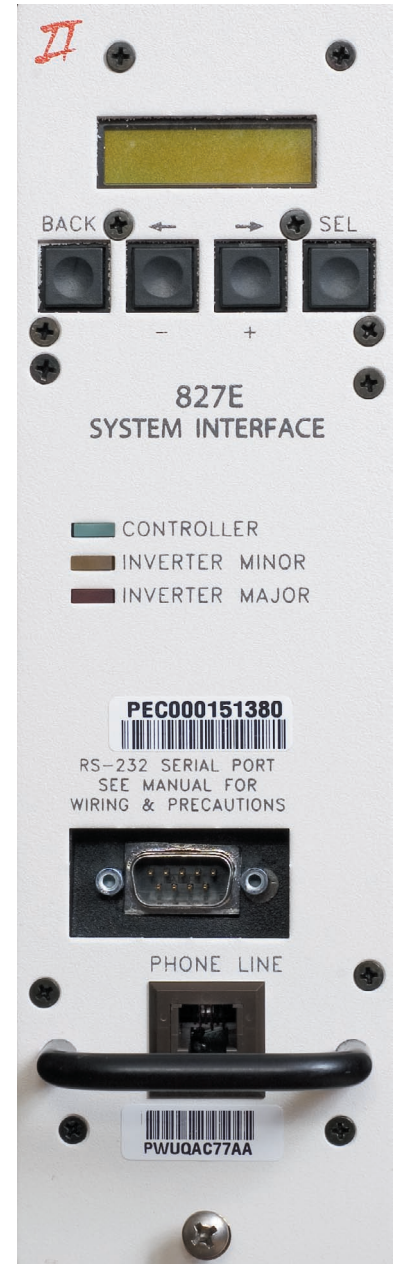
MECHANICAL

Inverters per shelf	4 / 6	4 / 6
Total Shelves per system	4	1
Dimensions, Fully Equipped	8.75"H x 15"D x 19" or 23"	8.75"H x 15"D x 19" or 23"
Weight	74 lbs.	61 lbs.
Cooling	Front to rear fans (each inverter)	Front to rear fans (each inverter)

DOCUMENTATION

Product Manual	4380419PD	4380419PD
J Drawing	438827E	438827E

■ ■ POWER SYSTEM CONTROLLER FEATURES



- ▶ Front panel craft port
- ▶ 2-line x 16 character backlit LCD
- ▶ Front panel status indicators
- ▶ 4-button navigation
- ▶ 4 alarm extension relays
- ▶ Modem connectivity optional
- ▶ Windows® based software