



# PECO II®

800 Amps @ -48VDC  
160 Amps @ +24VDC

## 129FD Power System



- ▶ 800A of -48V in 16RU
- ▶ Configurable main and supplemental distribution
- ▶ Modular design lowers Installed First Cost
- ▶ Enhanced battery health feature
- ▶ Front access configurations available
- ▶ Installer friendly cable management
- ▶ Ethernet connectivity
- ▶ +24V converter option available
- ▶ 92% efficient
- ▶ Delivered fully assembled and tested to reduce installation time



### ■ ■ PRODUCT DESCRIPTION

The 129FD power system is designed with flexibility in mind. It has many cost saving features such as front accessibility for reduced installation and maintenance costs, the choice to add power shelves and rectifiers in the field as the load increases, and remote access to reduce visits to the site. The system offers many options. Available as 7' relay rack, 7' front access cabinet, half rack for on top of batteries, or shipping rail configurations.

- ▶ Individual / dual AC inputs
- ▶ 23" mounting
- ▶ Front access rack mount battery trays available
- ▶ Optional junction box that extends AC connections to the top of the plant
- ▶ Rectifier shelves can be added in the field from the front of the system
- ▶ 24 status LED's
- ▶ 16 alarm extension relays
- ▶ Standard battery temperature compensation
- ▶ Controlled battery recharge
- ▶ High float current alarm
- ▶ Battery string current variance alarm
- ▶ 800 Amps @ -48VDC
- ▶ Optional 160 Amps @ +24VDC
- ▶ 32 plug-in distribution positions in basic
- ▶ Optional supplemental distribution
  - Four panel types available
- ▶ Circuit breakers up to 600 Amps
- ▶ Fuses up to 800 Amps
- ▶ Optional LVD
- ▶ 50 Amp switchmode rectifiers
- ▶ 20 Amp @ +24VDC converters
- ▶ Rectifier test jacks
- ▶ Optional battery disconnect/EPO

### ■ ■ APPLICATIONS

- ▶ Controlled Environment Vault (CEV)
- ▶ Small CO's
- ▶ Remote Switches
- ▶ Wireless Power Cabinets
- ▶ Base Termination Station (BTS) Cabinets
- ▶ Base Termination Station (BTS) Huts

## ■ ■ SPECIFICATIONS

### INPUT

<b>Voltage Range</b>	120/208/240VAC
<b>Frequency</b>	45 - 65Hz
<b>Current</b>	13A AC typical, 19A AC maximum per rectifier
<b>Customer Provided Protection</b>	25A, 2-Pole CB per rectifier

### OUTPUT

<b>Voltage Range (-48VDC)</b>	42VDC - 59.5VDC
<b>Current (-48VDC)</b>	50A per rectifier
<b>Efficiency</b>	92% full load
<b>Voltage (+24VDC)</b>	Fixed @ +24VDC
<b>Current (+24VDC)</b>	20A per converter

### NOISE

<b>Voice Band</b>	< 32dBnc (with battery)
<b>Wide Band</b>	< 100 mVrms (10 - 20MHz) / < 250 mV peak to peak (0 - 100MHz)
<b>Acoustic</b>	< 55dB

### ENVIRONMENTAL

<b>Storage Ambient</b>	-40°F to +185°F (-40°C to 85°C)
<b>Operating Ambient</b>	+23°F to +122°F (-5°C to +50°C)
<b>Humidity</b>	< 95% non-condensing
<b>Heat Dissipation</b>	750 BTU/hr per rectifier module at full load 315 BTU/hr per converter module at full load

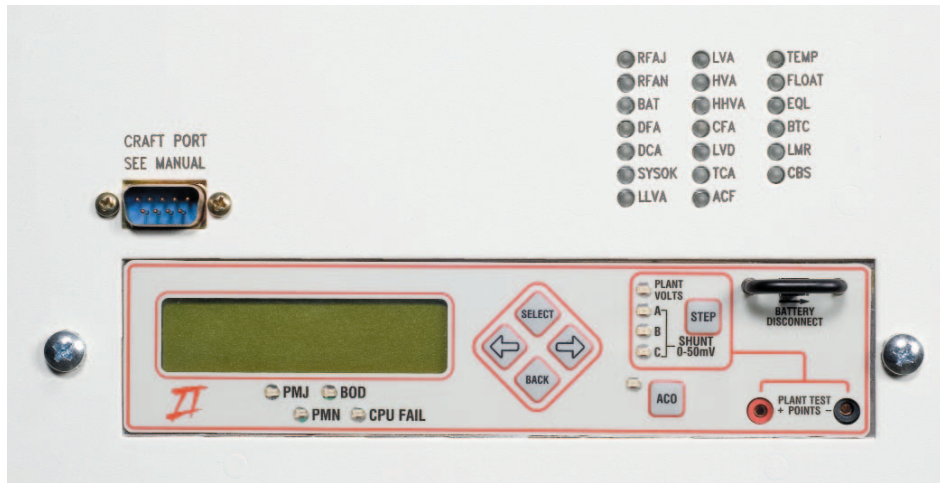
### MECHANICAL

<b>Dimensions, Fully Equipped</b>	35"H x 22"D x 23" mounting width
<b>Weight</b>	450 lbs.
<b>Cooling</b>	Front to rear fans in rectifier and converter modules

### DOCUMENTATION

<b>Product Manual</b>	4380431PD
<b>J Drawing</b>	438129FD

## ■ ■ POWER SYSTEM CONTROLLER FEATURES



- ▶ Front panel craft port
- ▶ 2-line x 16 character backlit LCD
- ▶ Front panel status indicators
- ▶ Redundant PMJ, PMN, BOD, CPU fail functions
- ▶ 4-button navigation
- ▶ Test jacks
- ▶ 16 alarm extension relays
- ▶ Audible alarm with cutoff
- ▶ Ethernet connectivity standard

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