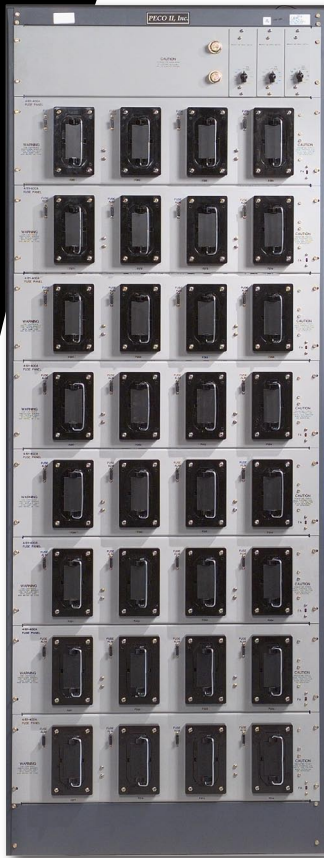# PECO II ®

## 153M Power System

- Used with 200A or 400A ferroresonant rectifiers

- Architecture based on N+1 20 rectifier system

- Digital meter and alarm panel

- Various distribution options, fuses or circuit breakers

- 2500 Amps per distribution bay

- Designed for left or right hand expansion

- Overhead bus bar kits available in various configurations

- Bus bar kits available to expand initial system

## ■ ■ PRODUCT DESCRIPTION

The 153M power plant is designed to provide distribution and monitoring of -48VDC. The plant is rated at 5000 Amps (total 5000 rating includes main and supplemental bays). The -48VDC is fed through a 6000 Amp total discharge shunt that is bussed to a main bay and supplemental bays rated at 2500 Amps each. The main source of power for the 153M power plant is commercial AC that is converted to DC by the ferro rectifiers. The 153M power plant provides system monitoring, alarming, and distribution of -48VDC to load circuits.

System operation is such that the rectifiers float the battery, charge the batteries as required, and provide current to the load circuits. Audible (optional) and visual alarms are produced by the meter and alarm panel when the battery float voltage deviates from system set points.

## ■ ■ SPECIFICATIONS

### INPUT

| | |
|---|---|
| **Voltage Range (VAC)** | 187 - 254VAC |
| | 424 - 508VAC |
| | 570 - 630VAC |
| **Frequency** | 57 - 63Hz |

### OUTPUT

| | |
|---|---|
| **Voltage Range** | 48 - 54VDC |
| **Current** | 5000A maximum |

### NOISE

| | |
|---|---|
| **Voice Band** | < 38dBrmc |
| **Wide Band** | < 200mV peak to peak |

### ENVIRONMENTAL

| | |
|---|---|
| **Storage Ambient** | -40°F to +185°F (-40°C to +85°C) |
| **Operating Ambient** | +32°F to +86°F (0°C to +30°C) |
| **Humidity** | < 95% non-condensing |

### MECHANICAL

| | |
|---|---|
| **Bay Dimensions** | 84"H x 30"D x 31.5"W |
| **Rectifier Dimensions** | |
| 200A | 84"H x 15"D x 13"W |
| 400A | 84"H x 15"D x 26"W |
| **Weight** | 565 lbs. |
| **Cooling** | Convection |

### DOCUMENTATION

| | |
|---|---|
| **Product Manual** | 642153MP |
| **J Drawing** | J-4383853-M |

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## ■ ■ POWER SYSTEM METER & ALARM PANEL

Various controller options to customize system control parameters for your network requirements.

08/2006

**PECO II** ®