



# PECO II®

10,000 Amps @ -48VDC

## HDS 7200 Power Systems



- ▶ Modular design providing up to 10,000 Amps
- ▶ Wide input voltage range, (176-264V) & (264-530V)
- ▶ Multiple battery and load distribution units
- ▶ User friendly digital controller equipped with BTC, battery testing, and energy management
- ▶ Remote monitoring and control via ethernet connection



### ■ ■ PRODUCT DESCRIPTION

#### SYSTEM SOLUTIONS

The HDS 7200 series power system is specifically designed for high power telecommunication applications including switching and exchange centers. The system accommodates a wide variety of configurations using 7ft rectifier bays along with optional supplemental distribution bays. The scalable architecture allows the power system to be fully expanded to more than 10,000 Amps, allowing users' system to grow to meet their network needs.

#### Bulk power system

The HDS 7200 power system combines a modular design with state-of-the-art technology. The HDS 7200 power system is capable of providing power up to 604.8 kW. It contains up to 7 rectifier bays with 84 rectifiers and various distribution units. Configurable elements include AC and DC distribution, battery distribution, and power system controller.

#### Battery Termination Bay (TB)

The Battery Termination Bay provides battery connection of more than 10,000 Amps with 2 TB bays. Each TB bay provides ten 800 Amps fuse for battery string connection, which can be configured with an optional shunt and fuse alarm.

#### Power Distribution Center (PDC)

The Power Distribution Center provides load distribution more than 10,000 Amps with 4 PDC bays. Each PDC bay is providing twelve 800 Amps fuse positions for power distribution protection which can be configured with an optional shunt and fuse alarm.

## ■ ■ APPLICATIONS

- ▶ Central Switching Office
- ▶ Data Switching Center
- ▶ Mobile Switching Center

## ■ ■ SPECIFICATIONS

### SYSTEM ARCHITECTURE

| System        | Maximum Power | Maximum Current | Dimensions         |
|---------------|---------------|-----------------|--------------------|
| Rectifier Bay | 86.4kW        | 1800A           | 84"H x 24"D x 24"W |
| BDC Bay       | N/A           | 6000A           | 84"H x 24"D x 24"W |
| PDC Bay       | N/A           | 3000A           | 84"H x 24"D x 24"W |

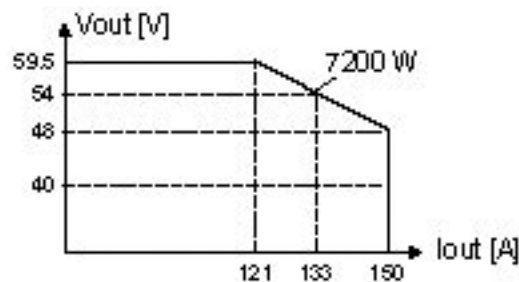
### RECTIFIER

#### INPUT

|                          | High Range     | Low Range      |
|--------------------------|----------------|----------------|
| Voltage, nominal (V rms) | 380/480, 3Ø    | 208, Ø         |
| Voltage Range (V rms)    | 264 - 530      | 176 - 264      |
| Current maximum (A rms)  | 20             | 40             |
| Frequency (Hz)           | 45 – 65        | 45 – 65        |
| Power Factor             | 0.99           | 0.99           |
| THD (%)                  | < 5            | < 5            |
| Start Time Delay         | 3 – 10 seconds | 3 – 10 seconds |
| Protection               | Fuse           | Fuse           |

#### OUTPUT

|                          |           |
|--------------------------|-----------|
| Voltage, nominal (VDC)   | 54        |
| Voltage Adj. Range (VDC) | 40 – 59.5 |
| Power Limitations (W)    | 7200      |
| Current Limitations (A)  | 150       |
| Efficiency (%)           | > 90      |



Output characteristics

### MECHANICS

|                        |  |
|------------------------|--|
| Dimensions (W x H x D) | 19" x 5.2" x 18.9" / 483mm x 131mm x 280mm |
| Weight                 | 48.8 lbs. / 22kg                           |

### SAFETY & ENVIRONMENT

|                                |  |
|--------------------------------|--|
| Safety Standards               | IEC 60950<br>EN 60950<br>UL 60950      |
| Protection Class               | IP20                                   |
| EMC                            | EN55022 Class B<br>FCC Part 15 Class B |
| Operating Temperature          | 23°F to 131°F (-5°C to +55°C)          |
| Cooling                        | Forced air cooling, front to rear      |
| Relative Humidity, maximum (%) | 95, non-condensing                     |

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