



PECO II®

1200 Amps @ -48VDC
2400 Amps @ +24VDC

HDS 3000 Power Systems



- ▶ Single rack high power solutions in either -48V or +24V
- ▶ Optional converters available in either polarity
- ▶ Flexible system architecture allows expansion
- ▶ Wide input voltage range
- ▶ User friendly digital controller equipped with BTC, battery testing, and energy management
- ▶ Remote monitoring and control via ethernet connection
- ▶ Wide range of choices for distribution and system configuration



■ ■ PRODUCT DESCRIPTION

SYSTEM SOLUTIONS

The HDS 3000 series power system is designed to meet the demands of today's and tomorrow's wireless and wireline network applications. The system offers advanced features, making it a versatile choice for a wide array of indoor and outdoor applications. Its high power density, digital controller, and flexible configurations are the key for success of this power system family.

High-Density Power System

The HDS 3000 power system combines a compact modular design with constant power features and advanced technology. The typical 7ft system contains up to 24 rectifiers in six rectifier shelves and optional converter shelves are available for up to 5.2kW of secondary DC output. The HDS 3000 power systems have the versatility to provide power to your network.

Cabinet Power Solution

The HDS 3000 provides solutions when cabinet power is required. The compact (13RU) and modular design fits into a 23" relay rack or cabinet. Sub-system options provide up to three power shelves and 4RU height DC distribution unit. Configurable elements including AC and DC distribution, LVD, and power system controller.

Low Profile Solution

With the 42" half height relay rack, the HDS 3000 low profile power system is ideal for mounting on top of modular VRLA batteries. The system contains three rectifier shelves with up to 12 rectifiers; in addition, the optional DC/DC converter shelf can be equipped when a second DC output is required. The low profile system also includes a high density DC distribution panel designed for easy expansion of plug-in style circuit breakers.



■ ■ APPLICATIONS

- ▶ Cellular Base Stations
- ▶ BSC/RNC
- ▶ Transmission/ Data networking
- ▶ Small Central Office
- ▶ Huts
- ▶ Cabinets
- ▶ Distributed Power Systems

■ ■ SPECIFICATIONS

SYSTEM ARCHITECTURE

System Type	Maximum Power	Maximum Current
+24V**	67.2kW	2808A
-48V	72kW	1500A

** -48V DC/DC converters available for +24V solution

RECTIFIER

	+24V	-48V
INPUT		
Voltage, nominal (V rms)	220	220
Voltage Range (V rms)	90 - 300	90 - 300
Reduced Power (V rms)	90 - 176	90 - 176
Current maximum (A rms)	18	19
Frequency (Hz)	45 - 65	45 - 65
Power Factor	0.99	0.99
THD (%)	< 5	< 5

OUTPUT

Voltage, nominal (VDC)	27	54
Voltage Adj. Range (VDC)	20 - 29	40 - 59.5
Power Limitations (W)	2800	3000
Current Limitations (A)	116.6	62.5
Efficiency (%)	89.5	91

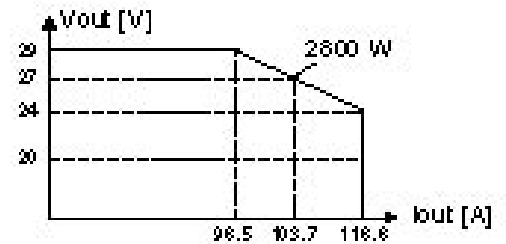
MECHANICAL

Dimensions (W x H x D)	5.4" x 3.3" x 15.2"/138mm x 84mm x 385mm
Weight	11 lbs. / 5kg

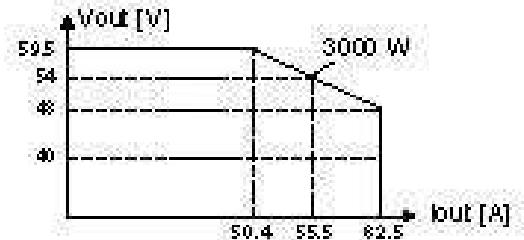
SAFETY & ENVIRONMENT

Safety Standards	IEC 60950 EN 60950 UL 60950
Protection Class	IP20
EMC	EN55022 Class B FCC Part 15 Class B
Operating Temperature	-4°F to +149°F (-20°C to +65°C)
Reduced Power	+122°F to +149°F (+50°C to +65°C)
Cooling	Forced air cooling, front to rear
Relative Humidity, maximum (%)	95, non-condensing

CONSTANT POWER OUTPUT CURVES



ESR 24 V - 2800 W - D output characteristics



ESR 48 V - 3000 W - D output characteristics