

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

-48V

- Cabinets
- Distributed Power Systems

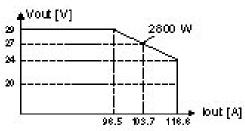
SPECIFICATIONS

SYSTEM ARCHITECTURE

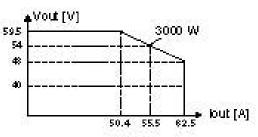
System Type	Maximum Power	Maximum Current
+24V**	67.2kW	2808A
-48V	72kW	1500A

+24V

CONSTANT POWER OUTPUT CURVES



ESR 24 V - 2800 W - D output characteristics



ESR 48 V - 3000 W - D output characteristics

INPUT

RECTIFIER

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

-4°F to +149°F (-20°C to +65°C) **Operating Temperature Reduced Power** +122°F to +149°F (+50°C to +65°C) Forced air cooling, front to rear Cooling

Relative Humidity, maximum (%) 95, non-condensing

08/2006



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