BENNING HD1200 Power System 3000W-72kW@ 54VDC

HD1200, E/W (9) 48V, 56A Rectifiers (As shown)

The BENNING HD1200 Power System is one of the cornerstones in the BENNING product line. It utilizes our High Density 3000W Rectifier Module. This system has been designed for use in small to mid-power fiber, customer premise, PCS, outside plant, microwave and other communications applications requiring high availability DC Power.

The Modular 48VDC Power System can provide up to 1344A (72kW) of DC Current in one 24" x 24" completely enclosed, pre-wired and factory tested cabinet assembly.

Various DC distribution options are also available from AM1™ or GJ1™ circuit breakers to GMT™ or TPL™ fuses. Low Voltage Battery and/or Load Disconnect Contactors can also be provided as optional features. Local and Remote monitoring via Modem, HTML or SNMP is also available as options.

Key Features

- **Fully Factory Assembled, Wired and Tested, Front Access Cabinet Solution**
- **Ease of Installation, Maintenance and System Expansion**
- **Rectifier Module Shelves are Pre-wired for up to twenty-four, 48VDC, 56A Rectifier Modules**
- **All Modules are Hot-Plug Technology**
- **Wide Selection of DC Load Distribution Options**
    - **GMT™Fuse Positions**
    - **TPL™ Fuse Positions**
    - **AM1™ Circuit Breaker Positions**
    - **GJ1™ Circuit Breaker Positions**
- **Temperature Compensated Battery Charging (Probe required)**
- **Power Management Function**
- **Automatic Battery Test Function**
- **Automatic Battery Equalization Function**

ISO 9001
BUREAU VERITAS
Certification
No. 08000259

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Specifications are subject to change without notice.

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Technical Specifications

SYSTEM	Rectifier Module Power Output Rating @ Input Voltage	3000 W each @ 175-264VAC, 1440 W @ 120VAC
	DC System Capacity	72kW
	Maximum Rectifier Modules Per System	24
	Remote Alarming	AC Failure, Rectifier Failure, Circuit Breaker Tripped, Urgent, and Non-Urgent (Other Alarms Also Available)
	Metering	Graphic Display and LED's
	Indicators (Rectifier Modules)	Rectifier On, Rectifier Off, and Rectifier Fail
	Alarm Indicators, Metering - Door Mounted MCU	Output Current, Output Voltage, Float, Boost, Battery Test, Battery Test Fault, Rectifier Fault, Rectifier AC Fail, DC Voltage <48.0V, DC Voltage <46.0V, Load CB Tripped, Load Fuse Open, (Optional)—LV Battery Disconnect Operated, (Optional)—Load LV Disconnect Operated
DC OUTPUT	Nominal DC Output Volts	54VDC
	DC Output Current	1344 A @ 54VDC
	DC Output Regulation	±1%
	Rectifier Parallel Operation	24 Rectifier modules maximum, load sharing <±5% at 20% load
AC INPUT	AC Input Voltage Range	175—264VAC
	AC Input Frequency Range	47—63 Hz
	Power Factor	0.99 Typical, Full Load
	Efficiency	=>91% @ Full Load
ENVIROMENTAL	Operating Temperature Range	Rectifiers : -40 C to + 75° C, (De-rating 2.5%/C°,>60 to 75° C)
	Operating Humidity Range	0-90% non-condensing
	Cooling	Temperature Controlled Fan, Horizontal Airflow
	Altitude	3,300 ft. (1000m) (De-rating 1-%/100m)
	Audible Noise	< 58 dba
MECH	Cabinet Dimensions	23.6" (600mm) x 23.6" (600mm) x 84" (2137mm)
	Rectifier Module Weight, ea.	6.4 lbs (2.9 kg)
	Rectifier Module Size	5.23" (133mm) x 3.375" (85.725mm) x 12.750" (323.85mm)
STD	Design	CE, cUR, EN60950, System cUL Pending
	EMI Emissions	EN62040-2, FCC Class A
	EMI Immunity	EN61000-4-4, EN610004-5
	Electrostatic Discharge Immunity	EN61000-4-2

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