

# NetSure™ 8200 Series

DC Power System



## Benefits

- Free up floor space with a design that delivers power conversion, distribution, and control and monitoring in a single bay
- Modernize legacy infrastructure with power only bays that leverage existing cabling and breakers to power rectifiers via an integrated AC distribution panel
- Minimize installation time with built-in monitoring for all distribution devices
- Advanced security features available including HTTPS/SSL, complex login credentials, or Radius user authentication
- Numerous connectivity options support integration into a wide variety of networks – IPv4, IPv6, SNMP V2c and V3, Modbus, TL1 and multi-browser compatibility
- Easily monitor and adjust system parameters through an intuitive user interface available remotely and locally on a 10-in touchscreen display
- Upgrade legacy power plants in your network adding an advanced NCU controller with the NetSure 802 Retrofit Kit
- NEBS Level 3 certified

*The NetSure™ 8200 Series offers compact combination bays, complementary distribution bays, and stand-alone power bays that integrate easily with existing AC infrastructure.*



**Combination Power and Distribution Bay**



**Power Only Bay**



**Distribution Only Bay**

## Description

Designed to provide reliable -48 VDC power and distribution at core facilities, the digital NetSure 8200 plant leverages high-efficiency 200 amp rectifiers powered from 480 VAC or 208 VAC.

Combination bays offer power and distribution in a compact footprint, delivering 2000 amps of power and 2400 amps of distribution. Stand-alone power bays also hold up to ten rectifiers (2000 amps total) with optional AC infrastructure choices in the top half of the bay. 6000 amp distribution only bays are available for additional distribution needs. All of these bays can be connected to create larger plants, up to 16,000 amps.

An intuitive, touchscreen control panel provides status-at-a-glance information and multiple levels of security.

The NetSure 8200 Series offers versatile solutions to meet the needs of your central office, mobile switching office, cable headend, or data center deployment.



**Intuitive local touchscreen display**

## Technical Specifications

### System Features

Output Voltage	-42.0 VDC to -58.0 VDC, -48 VDC (nominal)
Input Voltage	340 VAC to 528 VAC, 480 (nominal) or 176 VAC to 264 VAC, 208 (nominal)
Control Unit	NCU with local 10" touchscreen color display

### Output Capacity

Per System	16,000 A
Power Bay	2000 A (nominal), 2200 A (full current limit)
Combination Bay	Power: 2000 A (nominal), 2200 A (full current limit) Distribution: 2400 A
Distribution Bay	6000 A
Rectifier	12,000 W (R48-12000e or R48-12000Le)

### Physical Characteristics

#### Dimensions (H x W x D), Weight

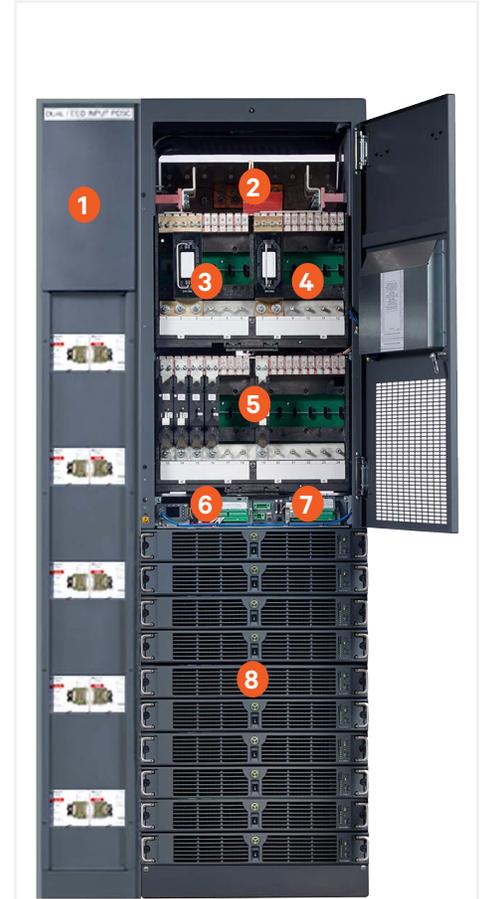
Power Bay with Rectifiers	84" x 24" x 30", 995 lbs.
Combination Bay, List 101, List 111	93.5" x 24" x 30", 830 lbs.
Combination Bay, List 102, List 112	84" x 24" x 30", 830 lbs.
AC Distribution Bay (PDSC)	84" x 10" x 30", 190 lbs.
Distribution Bay (DOB)	84" x 30" x 31.4", 850 lbs.

### Environmental

Operating Temperature	0°C to +40°C (+32°F to +104°F)
Storage	-40°C to +85°C (-40°F to +149°F)
Safety Compliance	UL Listed (UL1801), CSA 22.2 (No. 225), c UL, NEBS Level 3

## Ordering Information

Part No.	Part No.	Description
<b>Primary Bay</b>	<b>Secondary Bay</b>	
582140000101	582140000111	Primary/Secondary distribution frame, equipped for individual AC feed per rectifier
582140000102	582140000112	Primary/Secondary power/distribution frame, equipped for bulk AC feed per frame
582140000103	582140000113	Primary/Secondary power bay frame, 5 discrete AC inputs per bay (5 feed) for 400 A ferro retrofit application
582140000104	582140000114	Secondary power bay frame, 2 discrete AC inputs per bay (2 feed)
582140000105	582140000115	Secondary power bay frame, individual AC inputs per rectifier (10 feed) for 200 A Ferro retrofit applications or direct feed from existing AC PDSC
<b>Distribution Frames</b>		
582140000116		Distribution only bay (cable only bay) for use with external main battery termination bars, left or right expansion
582140000117		Distribution only bay with internal busbars (2nd bay), left or right expansion
582140000118		1st distribution only bay with internal busbars, expansion to the right
582140000119		Expansion busbars for distribution only bay to bridge PDSC
582140000122		1st distribution only bay with internal busbars, expansion to the left
<b>Rectifiers</b>	<b>Models</b>	
486534003	R48-12000Le	eSure™ high-efficiency rectifier, 200 amp (208 VAC)
486532603	R48-12000e	eSure™ high-efficiency rectifier, 200 amp (480 VAC)



## Overview

1. PDSC (with individual AC breakers)
2. Distribution
3. TPL Fuse Holders
4. Bullet Breaker/Fuse Holder
5. GJ Breakers
6. NCU Controller
7. Monitoring I/O Cards
8. eSure Rectifiers (486534003 or 486532603)