

NetSure™ 7200 Series

48V DC Power System – Up to 12,000 Amps



Key Features

- Modular system —allows incremental cost-effective system growth.
- High density, compact design – holds (60) 3500 watt rectifiers per bay for over 4000 Amps in a single bay.
- Remote access – allows users to view, control and interact with the system via SNMP V2 and V3, modbus, TCP/IP, IPv4 and IPv6 with multi-level/multi-web browser access.
- Local access – 12 inch touch panel display with graphical user interface.
- High efficiency, approaching 97% – reduces power consumption lowering operating cost
- Single phase 3500 watt rectifier – pre wired AC options for single and three phase AC inputs.
- Bussing options include overhead bus or internally with top mounted bus assemblies.
- Supports distributed and bulk plant architectures
- DC distribution – 39RU of vertical rack space for various fuse and breaker options with factory prewired shunts for local and remote load management.
- Safety compliance - NEBS level 3 certified, UL listed to UL subject 1801.

Description

The NetSure™ 7200 DC power system is an efficient and reliable multi-bay power system that delivers intelligent control, metering and monitoring. The foundation of the system is a patented, proven 3.5kW eSure™ rectifier, featuring high frequency switching technology in a compact package. Equipped with these rectifiers, this 48V DC power system offers high efficiency over a wide operating range and exceptional reliability. The flexible and modular design of this series enables deployment in a variety of site configurations and allows for scalable buildouts to match capacity to demand.

Power Bay

The power system consists of one (1) primary power bay and up to two (2) additional secondary power bays. Each bay accommodates up to sixty (60) rectifier modules and can be expanded to the right or left. These bays can be ordered factory configured for various AC input options enabling the single phase rectifiers, 1R483500e, to be wired for single and three phase inputs ranging from 208 VAC through 480 VAC.

Distribution Bay

The distribution bays offer right or left expansion up to five (5) bays and may be top or bottom fed. Each distribution bay provides 39 RU of vertical rack space for mounting a variety of distribution panels. Distribution panel options include a TPL fuse panel, a TPH fuse panel, a bullet nose type panel that accepts bullet nose circuit breakers and TPS/TLS fuse holders, and two types of GJ/218 circuit breaker panels.

Application

The NetSure 7200 system is ideal for wireline, wireless and data center applications such as switch sites, co-location, MTSO, cable landing stations and head ends.



Technical Specifications

System Overview

Power Capacity	600 kW
Current Capacity	12000 A
Output Voltage, Nominal	48 VDC
Input Voltage, Nominal	208/240 or 480 VAC
Part Number	582127200

Additional Details

Input Voltage, Operational	176 to 305 VAC
Input Connections	Terminal Strip
Output Voltage, Operational	42 to 58 VDC
Output Capacity	System 12000 amps; Bay 4000 amps (48VDC); Rectifier 3500 W (R48-3500e)
Peak Efficiency	96.20%
Load Circuit Breakers / Fuses	TPS/TLS, TPL, TPH Fuses; GJ/218, Bullet Circuit Breakers

Physical Characteristics

Equipment Dimensions (H x W x D)	84" x 30" x 30" up to 240" wide with multiple bays
Access	Rear

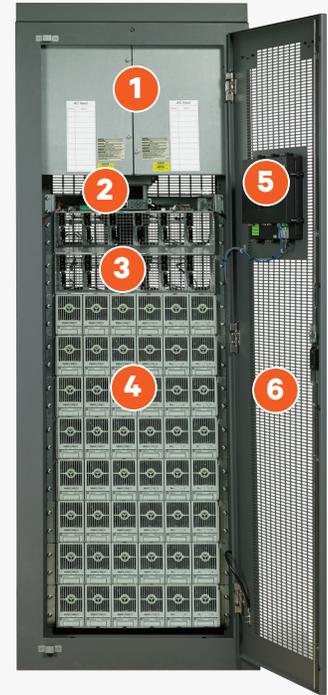
Environmental

Control and Monitoring	Dual Ethernet Embedded web pages, SNMP, Modbus; Programmable Relay Outputs and Binary Inputs
Operating Temperature	0°C to +40°C (+32°F to +104°F)
Safety Compliance	Power Bay; UL 60950 Listed ("c UL"), NEBS; Distribution Bay UL 1801 Listed ("c UL"), NEBS
EMC Compliance	FCC Class B

Ordering Information

Part Number	Description
582127200	NetSure 7200 DC power system
1R483500e	eSure rectifier, 3500 watts
1R483200e	eSure rectifier, 3200 watts

System Elements



1. AC Input Distribution Panel
2. NetSure™ Control Unit
3. Rectifier Shelf
(6 Slots/Shelf, 10 Shelves/Bay)
4. eSure Rectifiers (R48-3500e)
5. 12" Touchscreen Color Display
6. Lockable Front/Back Access