

NetSure 2100 Series

-48V DC Power System - Up to 3 kW



Benefits

- Easy to deploy in small spaces with a compact-sized 19" wide shelf, less than 11" deep
- Optimize total cost of ownership with >95% high-efficiency eSure™ rectifiers
- Save CapEx and OpEx on climate systems in outdoor applications with rectifiers that function at -40°C to +75°C, up to +45°C without derating
- Versatile remote access and monitoring through web browsers, TCP/IP & SNMP as standard, 2nd Ethernet port option available

The NetSure™ 2100 Series is designed for wireless access and customer premise applications offering unmatched temperature performance and high power density.

The NetSure 2100 Series, a compact -48 volt, 48A DC power shelf, features an advanced control unit, up to (3) positions for 1000W high-efficiency eSure rectifiers and space for distribution breakers and fuses. The power system supports 19"W and 23"W rack mounting and is available in a number of configurations. The distribution section supports four different options for circuit breakers up to 60A or GMT fuses up to 15A. A low voltage battery disconnect option is available.

Remote monitoring and control is offered through multiple web browsers including IE, Firefox, Chrome and Safari. Standard supported protocols include ModBus, SNMP V2 & V3. Encrypted security is provided by IPv6 and SNMPV3. Local access is also provided through the controllers' keypad and display.

NetSure DC Power systems from Vertiv offer extremely low failure rates, as well as low total cost of ownership, and are designed to work with a wide range of applications. The 1000 W eSure rectifier delivers peak system efficiency above 95%. Maximum value is achieved by an advanced energy optimization function known as ECO mode, enabling significant energy savings even at low loads.

Application

NetSure 2100 Series DC power systems are designed for deployment in customer premise and telecom access network applications requiring a reliable and high power density supply up to 48 A at -48 VDC at 40 °C. The high operating temperature (+70 °C) in conjunction with high operational efficiency has a positive impact on climate system dimensioning in outdoor enclosure applications. The compact size of this system fits into the smallest outdoor enclosures or allows more space for revenue generating equipment. NetSure 2100 DC power systems are designed for seismic zone 4 relay racks and cabinets to ensure high-reliability during an earthquake.



Technical Specifications

	LIST AA	LIST BA (pending)	LIST BB (pending)	LIST CA
AC Input				
System Voltage	120 VAC, 208 VAC, 240 VAC (nominal)			
Rectifier Voltage	85 VAC to 300 VAC, Single Phase (operational)			
Frequency	45 Hz to 65 Hz			
Input Connections	Cord for single feed, IEC for individual feed			
DC Output				
Voltage	-48 VDC to -58 VDC			
System Capacity	62.5 A @ +40 °C, maximum			
	51.6 A @ +65 °C, maximum			
	48.0 A @ +70 °C, maximum			
Distribution Capacity	48.0 A @ +40 °C, maximum			
	43.0 A @ +65 °C, maximum			
	38.0 A @ +70 °C, maximum			
Breakers	N/A	(7) Load breakers up to 30 A	(4) Load breakers up to 30 A	(4) Load breakers up to 60 A
Fuses	(12) GMT fuses up to 15 A	(6) GMT fuses up to 15 A	(6) GMT fuses up to 15 A	(6) GMT fuses up to 15 A
Battery Disconnect Breakers	N/A	N/A	(1) battery disconnect breaker up to 70 A	N/A
Physical Characteristics				
Mounting	Standard 19" W rack mounting			
Shelf Dimensions (H x W x D)	1U x 19" x 11.04"			
AC Accessibility	Rear of the Shelf			
DC Load Accessibility	Front	Slide Out	Slide Out	Rear/Front
Battery Termination Accessibility	Rear of the Shelf			
Environmental				
Operating Temperature	-40 °C to 70 °C (-40 °F to 158 °F)			
Storage Temperature	-40 °C to +85 °C (-40 °F to +185 °F)			
Standards Compliance				
Safety	UL 1801 Recognized			
EMC	Conforms to FCC rules Part 15, Subpart B, Class B and EN55022 Class B, radiated and conducted			
NEBS	GR-63 - CORE, GR-1089 - CORE, GR3108 Class 2 (pending)			

Ordering Information

Model Number	Part Number	Description
NetSure 2100	582138000*	-48V NetSure 2100 DC power system with integrated distribution
R48-1000E3	1R481000E3	Rectifier, 1kW, high efficiency
M831A	1M831ANA*	NCU controller

*Overall base system or controller number.

Vertiv.com | Vertiv Headquarters, 1050 Dearborn Drive, Columbus, OH, 43085, USA

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