

NetSure™ 531 A32

48V DC Power System- 6kW



Key Features

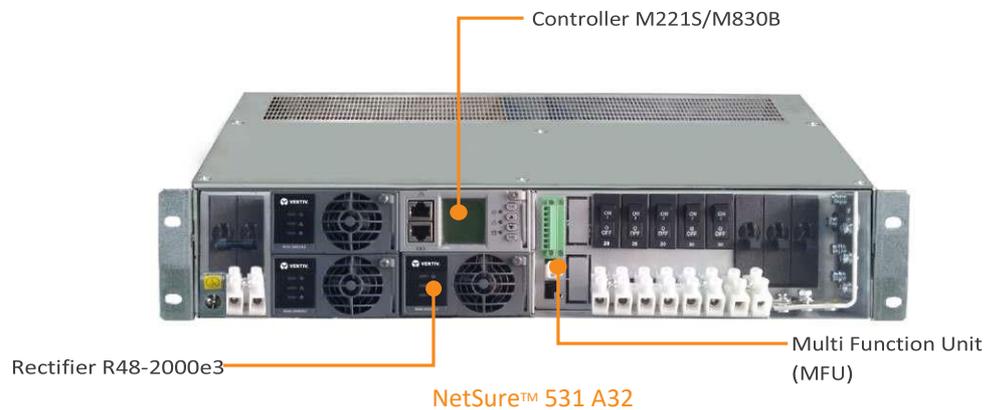
- The installation space and cost can be saved due to its small size and embedded installation
- Wide input voltage range(85-300Vac), strong ability in adapting power grid
- Rectifier working temperature range: -40 +80°C
- Supports ECO sleep technology, that optimizes system efficiency
- Efficiency of the rectifier is above 96%, efficiency of the system is above 95%
- Intelligent battery management system, which prolongs the working life of the battery
- Provide multiple communication ports such as RS232, Ethernet port, dry contacts, etc, for flexible networking to achieve remote monitoring

Applications

- Power supply for LTE in-building solutions
- Power supply for FTTx broadband multi-solutions
- Power supply for macro station and outdoor cabinet

Description

The Netsure™ 531 A32 series from Vertiv is a fully-integrated DC power system consisting of a rectifier and controller that provides maximum efficiency for mobile communication applications such as LTE and FTTx deployments or macro stations. It is designed to meet the high-efficiency demands of mobile applications, with high reliability, high power density, and fully digital features. The built-in high efficiency R48-2000e3 rectifier also provides an ultra high efficiency of up to 96%, significantly improving the energy efficiency.



NetSure™ 531 A32

System Capacity	6kW
Controller	M221S / M830B
Rectifier	Max: 3xR48-2000e3/R48-2000A3
AC distribution	1x40A/2P
Battery Capture	2x50A/1P
DC distribution	6 Routes:1x40A/1P, 2x30A/1P, 3x20A/1P
Lightning Protection (Optional)	C-level lightning protection at AC side (20kA) D-level lightning protection at DC side (10kA)
Dry Contact	M221S or M222S:4 alarm outputs (8 alarm outputs is optional) M225S: 2 alarm outputs (6 alarm outputs is optional)
Optional	Top Cover, Temperature Sensor, Battery Rack, Extended Board, LVD2

Rectifier

Configuration

Model

Efficient Module Normal: R48-2000A3 High Efficiency: R48-2000e3

Electric Parameters

Description

Input Voltage	85VAC ~ 300VAC
Power Factor	≥0.99
Efficiency	Normal: >94%; Efficiency: >96%
Max. Input Current	12A
Output Voltage	-42VDC-58VDC
Output Current (@-48Vdc)	0~42A
Nominal Voltage	-48VDC
Rated Voltage	-53.5Vdc
Operating Temperature	-40°C ~ +80°C, -40°C ~ +65°C Full load output voltage up to +65°C at input voltage range 200-300Vac

Controller M221S/M830B

		M221S	M830B
Display		LCD with 8x16 characters	128 x 160 Pixels TFT LCD
Communication Interface		Rs232, Ethernet	Rs232, RS485, Ethernet, USB
Protocol		HTTP, SNMP, YDN23	Ipv4, IPv6, HTTPS, SNMP V 2/ V 3, EEM, SocTpe, Rsoc, Mod Bus
Inputs	Analog	1 battery currents, 1 bus voltage, 1 battery voltage, 2 temperatures, 4 midpoint battery voltage	2 battery currents, 1 load current, 1 bus voltage, 2 battery voltages, 3 temperatures, 1 fuel level sensor and much more with additional interface boards
	Digital	2 load fuses, 4 battery fuses, 1 bi-stable contactor status, 4 user inputs(Optional, need extra board) load fuse and battery fuse can be configured as midpoint battery voltage, load fuse and battery fuse	1 input for status of surge protective device auxiliary contacts, 12 load fuses, 6 battery fuses, bi-stable contactor status
Outputs		1 LVD mono or bistable contactors, 1 LVD mono contactor, 8 user relay outputs (Optional, need extra board)	3 LVD mono & bistable contactors



R48-2000e3



M221S



M830B

Mechanical Parameters	NetSure 531 A32	R48-2000e3	M221S	M830B
Structure	19 inches(W), 2U(H)	2 x 1U	2 x 1U	2 x 1U
Dimensions (W x D x H)(mm)	483 x 310 x 88	84.5x252.5x41	86.8x211.5x43	86x208x43.4
Weight (kg)	≤13 (including rectifier and controller)	<1.13	< 0.8	< 1

VertivCo.com

© 2017 Vertiv Co. All rights reserved. Vertiv and the Vertiv logo are trademarks or registered trademarks of Vertiv Co. All other names and logos referred to are trade names, trademarks or registered trademarks of their respective owners. While every precaution has been taken to ensure accuracy and completeness herein, Vertiv Co. assumes no responsibility, and disclaims all liability, for damages resulting from use of this information or for any errors or omissions. Specifications are subject to change without notice.