NetSure[™] <u>531 A31</u>

48V DC Power System -6kW



Key Features

- 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 A31 series from Vertiv is a fully-integrated DC power system • The installation space and cost can be consisting of a rectifier and controller that provides maximum e iciency for mobile communication applications such as LTE and FTTx deployments or macro stations. It is designed to meet the high-e iciency 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 e iciency of up to 96%, significantly improving the energy e iciency.



NetSure™ 531 A31

- Contraction	NetSure ™ 531 A31				
System Capacity	6kW				
Controller	M221S / M830B				
Rectifier	Max: 3xR48-2000e3/R48-2000A3				
AC distribution	1x63A/2P				
Battery Capture	2x63A/1P				
DC distribution	8 Routes:1×50A/1P, 3×32A/1P, 4×16A/1P 6 Routes:1×40A/1P, 2×30A/1P, 3×20A/1P				
Lightning Protection (Optional)	C-level lighting protection at AC side (20kA) D-level lightning protection at DC side (10kA)				
Dry Contact	M221S or M830B:4 alarm outputs (8 alarm outputs is optional)				
Optional	Top Cover, Temperature Sensor, Battery Rack, Extended Board, LVD2				

NetSure[™] 531 A31

Rectifier

Configuration

Efficient Module

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		

Model

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

Controller M221S/M830B

		M22	15	M83	30B			
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 1 battery voltage, 2 4 midpoint battery v	temperatures,	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				
Mechanical Parameters		NetSure 531 A31	R48-2000e3	M221S	M830B			
Structure 19		9 inches(W), 3U(H)	2 x 1U	2 x 1U	2 x 1U			
Dimensions (W x D x H)(mm)		483 x 310 x 132	84.5x252.5x41	86.8x211.5x43	86x208x43.4			

≤16 (including rectifier and controller

Weight (kg)

Block B2, Nanshan I Park, No.1001 Xueyuan Road, Nanshan District, Shenzhen 518057 PR China

<1.13

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< 0.8

< 1

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R48-2000e3



M221S



M830B

