

NetSure™ 2100 Series

48V DC Power System, 3 kW



Key Features

- Ultra Compact Power System - up to 3 kW rectifier capacity in 1U
- High Efficiency - 95.4% efficient rectifiers ensure optimized total cost of ownership
- ECO Mode — an innovative function that enables significant energy savings, even at low load operation
- Remote Access and Communication - TCP/IP supporting WEB, SNMP and Modbus
- Front Access - All load connections on front via spring loaded quick connectors
- Shallow Cabinet Applications - Can be installed in 300mm deep cabinets
- Low audible noise under normal load and temperature conditions

Applications

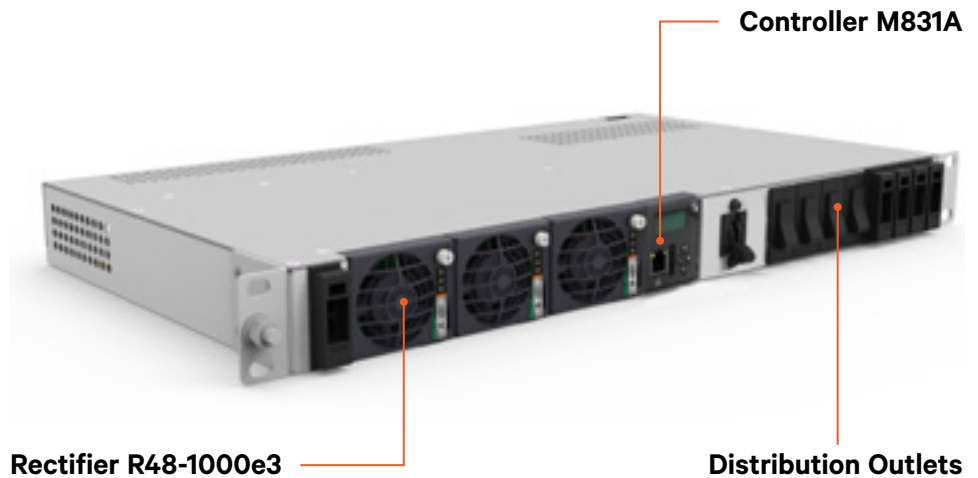
- Radio Access Nodes - 3G/4G/5G, TETRA, GSM-R
- Wireline Access Nodes - FTTx applications
- Customer Premises Equipment

NetSure™ 2100 Series is designed for telecom applications requiring ultra compact design and high power density.

This power dense 48 VDC power system is available with an advanced controller, up to (3) three 1000W high efficiency rectifiers, battery and load MCB's.

The 1U high power sub-rack supports 19" rack mounting. The distribution section supports 4 load MCB's and 1 battery MCB. A BLVD contactor ensures disconnection of the battery at the end of battery discharge to protect the battery from deep discharge.

The M831A controller provides advanced features such as parameter logging, remote monitoring via SNMP or Modbus as well as a WEB interface for local or remote access to system operational information and parameter settings.



NetSure™ 2100 A31-S3

Technical Specifications

System Configuration

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AC Input

Nominal	Single Phase 200 to 250 VAC
Operational	85 to 300 VAC
Frequency	45 to 65 Hz
Input Connection	Spring loaded quick connector for L and N and M6 stud for PE at front

DC Output

Nominal	-48 VDC
Adjustable Range	-42 to -58 VDC
Rectifier Capacity	3 kW (3 x 1 kW rectifiers)
Max Load	2 kW
Rectifier peak efficiency	95.4%

Load & Battery MCB's

Battery *)	1 x 50A (battery cable connection via terminal block at rear)
Load **)	1 x 3A, 1 x 10A, 2 x 30A (Load cable connection via spring loaded quick connectors at front)

User Access and Communication

Controller	M831A
Local Display and Control	LCD with push buttons and status LED's
WEB Interface	Yes, HTTP/HTTPS (IE, Chrome, Firefox & Safari)
Protocols	TCP/IP (IPv4 & IPv6), SNMP (V2c & V3), Modbus (TCP/IP)
Communications Port	Ethernet
Alarm Relays	4
Digital Inputs	2

Environmental

Temperature Operating Window	-40°C to +75°C
Temperature Operation, Non-Derated	-40°C to +45°C
Audible Noise	≤ 45 dB (4.5 bels) for single rectifier with ≤ 700W load at ≤ +30°C operation

Standards Compliance

Safety	EN62368-1, CE
EMC	EN300386 v1.6.1, Class B
Storage	EN300019-1-1, class 1.2
Transportation	EN300019-1-2, class 2.3 T2
Operation	EN300019-1-3, class 3.1
RoHS / REACH compliance	Yes

Dimensions and Weight

Width	482.6 mm, for 19" rack mounting
Height	43.6 mm, 1U
Depth	240 mm
Weight, without rectifiers	≤ 4kg
Weight, fully equipped	≤ 6kg