

# NetSure™ 2100 Series

48V DC Power System



## Key Features

- Ultra-compact sub-rack power system– delivers up to 3kW in 1U rack space
- Wide operating voltage range i.e. 85-300VAC
- Higher rectifier efficiency up to 95.4%
- All the breakers and connections are accessible from the front side
- Integrated distribution outlets
- Advanced intelligent battery management system
- Built-in communication & dry contact ports that enable remote monitoring.
- Stores up to 4000 alarms
- Low audible noise under normal load and temperature conditions

## Applications

- Distributed Antenna Systems (DAS)
- Broadband
- Radio Access Nodes - 3G/4G/5G
- Wireline Access Nodes - FTTx applications

## Description

The NetSure™ 2100 series is a high-density DC sub-rack power system designed to deliver up to 60A power capacity for network access applications. It is embedded with industry leading rectifiers in conjunction with advanced controller that deliver unprecedented performance as well as high endurance against harsh and demanding environmental conditions. It has integrated distribution outlets that enable direct plug-in for various networking devices.



NetSure™ 2100 A31-S1



NetSure™ 2100 A31-S2



NetSure™ 2100 A31-S3



R48-1000e3



M225S



M831A

## System Configuration

	NetSure™ 2100 A31-S1	NetSure™ 2100 A31-S2	NetSure™ 2100 A31-S3
System Capacity	40A	60A	60A
Rectifier	2 x R48-1000e3	3 x R48-1000e3	3 x R48-1000e3
Controller	M225S	M225S	M831A
AC Distribution	L + N + PE/220Vac 1X 30A ; quick-plug terminal		
Battery distribution	1 x 30A	1 x 50A(battery cable connection via terminal block at rear)	
Load distribution (switch type breaker)	1 X 20A, 2 X 10A	2 X 30A, 1 X 10A , 1X 3A	2 X 30A, 1 X 10A , 1X 3A
Installation Method	Embedded		
Dimensions (W X D X H)	482 X 240 X 43.6 in mm		
Weight (kg)	<4kg (excluding rectifiers), <0.6kg for a rectifier		

## Electrical Parameters

Performance Parameters	Description
Input Voltage	85-300Vac
Input Frequency	45-65Hz
Power factor	0.99
Output Voltage	-42.3 to 57.6 Vdc
Output Current	0-52A
EMC Class	Class B
Operating Temperature	-40 ° C ~ +75 ° C (derated above 45 ° C)
Storage Temperature	-40 ° C ~ +70 ° C
Altitude	≤4000m (derated more than 2000m )

## Rectifier Module Parameters

Model	R48-1000e3
Maximum Power	1000W
Maximum Current	20.8 A@48V
Peak Efficiency	95.4%
Harmonics	<5%
Weight	<0.6kg
Dimensions	52mm (W) × 152mm (D) × 41mm (H)

## Controller

Model	M225S	M831A
Local Display	LCD with push buttons and status LED's	
Web Interface	No	Yes, HTTP/HTTPS (IE, Chrome, Firefox & Safari)
Communication port	RS 232	Ethernet
Alarm Relays	2(6)	4
Digital Inputs	0	2