

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, a basic or 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 M225S controller provides basic supervision and control with remote alarm notification via relay contacts. The M831A controller provides more 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.



Technical Specifications

SYSTEM CONFIGURATION	NETSURE™ 2100 A31-S2	NETSURE™ 2100 A31-S3
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	M225S	M831A
Local Display and Control	LCD with push buttons and status LED's	
WEB Interface	No	Yes, HTTP/HTTPS (IE, Chrome, Firefox & Safari)
Protocols	YDN23	TCP/IP (IPv4 & IPv6), SNMP (V2c & V3), Modbus (TCP/IP)
Communications Port	RS232	Ethernet
Alarm Relays	2 (6)	4
Digital Inputs	None	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	EN60950-1, 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	

NOTES

*) Battery MCB configuration can be changed on demand at factory, available sizes are 32A, 40A and 50A

**) Load MCB configuration can be changed on demand at factory, available sizes are 3A, 6A, 10A, 16A, 20A, 25A and 30A

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