NETSURE™ 801 SERIES

-48 VDC Power System

VERTIV

NetSure™ 801 Series is the ideal solution for central offices, data centers and other large -48 VDC sites, offering high power density at more than 96% efficiency.

KEY FEATURES

- Minimized installation time – thanks to easily configurable file upload/download
- High reliability – extremely low failure rates ensure safe operation and low total cost of ownership
- High power density – up to 116 kW (20 rectifiers) in a single cabinet
- High end controller – extensive battery management functions, event logs and real time remote site supervision through SNMP protocol
- Easily configurable file upload/download minimizes installation time
- Plug-n-play – rectifiers and distribution units (in distributed systems) can be added without system interruption or the need to change settings.

Description

The NetSure™ 801 Series is designed to provide highly reliable and efficient -48 VDC power supply for large telecom sites. It is equipped with high efficiency 5800W eSure™ 3-phase rectifiers and Vertiv's latest advanced control unit (ACU+) featuring advanced battery test functions, battery capacity prediction and event logs.

The ACU+ has SNMP protocol and a large number of alarm relays that together with our site monitoring modules offer advanced remote site monitoring possibilities.

Designed to allow quick extensions to a live system, rectifiers and control units are plug-and-play, which enables easy on site expandability. New cabinets can also simply be added to a live system.

The NetSure 801 Series can be configured freely as a distributed system with rectifiers and battery/load fuses in the same cabinet, or as a bulk system with separate cabinets for load fuses. In addition a semi-bulk option is available, based on the distributed architecture, with high rectifier capacity and fewer and larger fuses. Both semi-bulk and bulk systems are normally used in combination with remote distribution cabinets.

Remote distribution cabinets are also part of the NetSure family. Each distribution cabinet can be equipped with up to 6 distribution panels (NH fuses or HOD and/or LOD circuit breakers).

Application

NetSure 801 Series is the ideal solution for large -48 VDC sites such as central offices, data centers and other medium or large sites that need highly reliable backup.

The bulk concept is especially well suited for replacing large old power systems at existing sites. It is the perfect way to upgrade your site, optimize room space, increase reliability and decrease power consumption (OPEX savings). Live system expandability allows appropriate investments (CAPEX savings) in accordance with present and future needs.

NetSure 801 Series Bulk System with 2 Cabinets

NetSure 801 Series Semi-Bulk System with 2 Cabinets

Technical Specifications

PHYSICAL CHARACTERISTICS	
Mounting	Top and bottom cabling
Dimensions (H x W x D)	2000 x 600 x 600 mm per cabinet
Weight	280 kg per cabinet (fully equipped)
Access and Security	Front access, IP20, door with lock as option

ENVIRONMENTAL	
Temperature Range, Operating	-5°C to +60°C (full power up to 40°C)
Safety Compliance	IEC 60950, EN60950
EMC	EN 300 386-2 class B, FCC part 15 class B

OUTPUT SYSTEM VOLTAGE	
Nominal	-48 VDC
Adjustable Range, Operating	-42 VDC to 58 VDC

INPUT SYSTEM VOLTAGE	
Nominal	380 V / 480 V – 3P without neutral: 50 Hz / 60 Hz
Permitted Variations	260 to 530 VAC – 3P without neutral: 45 Hz to 65 Hz

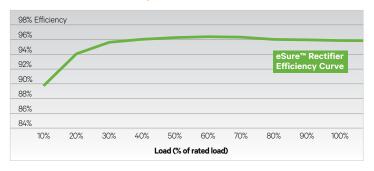| OUTPUT POWER	
Distributed System Architecture	46,4 kW per distributed cabinet (8 x 5800 eSure™ rectifiers per cabinet) Total system capacity expandable up to 1,3 MW
Semi-Bulk System Architecture	69,6 kW per semi-bulk cabinet (12 x 5800 eSure rectifiers per cabinet) Total system capacity expandable up to 1,3 MW
Bulk System Architecture	116 kW per bulk cabinet (20 x 5800 eSure rectifiers per cabinet) Total system capacity expandable up to 1,3 MW
eSure Rectifier	5800 W @ Vout > 48 VDC

EFFICIENCY	
eSure Rectifier	Up to 96,2%

Efficiency Curve (R48-5800e)

Ordering Information

PART NUMBER SERIES	
BMK448085/xx	NetSure™ 801 series distributed system
BMK448091/xx	NetSure 801 series semi-bulk system
BMK448090/xx	NetSure 801 series bulk system
BMK447086/xx	Remote distribution cabinets
BML403123	eSure rectifier 48 V, 5800 watt, high efficiency (R48-5800e)

Note: xx defines the specific configuration. Custom specific configurations can have other part numbers.

NetSure™ 801 Series Distributed System with 2 Cabinets