Netsure™ 7100

Semi-Bulk and Semi-Bulk XL Systems

Key Features

Market-leading power density

- Save space for telecom and datacom equipment.

Ultra High Efficiency Rectifier

- System features high or ultra-high 98% efficiency eSure rectifiers for optimal energy savings.

Full Control with Intelligent Load Management

- Individual current measurement feature displays current readings for each fuse/circuit breaker in DC power cabinet and remote distribution cabinets – provides early warnings to prevent overloads.
- Site energy consumption mapping displays energy consumption for each DC Power fed server rack – helping to understand site energy distribution and finding possible hot-spots.

Market-leading power capacity within a single footprint. The Semi-Bulk Systems in the NetSure 7100 DC power core platform offer 48V back-up with uncompromised reliability.

Designed for large telecom and data centres, the systems provide market leading power capacity in a small footprint. The systems can be configured and expanded to several MW of power and will ensure an outstanding site availability.

Improving site availability

NetSure 7100 sets a new standard

With the optional Intelligent Load Management function the system offers outstanding advanced technology, that provides early warnings, so that measures can be taken before overloads occur. With the NetSure 7100 Semi-Bulk system you can work safe and quick on live systems. The system is designed to minimize risk during reconfiguration and extension. Changing fuses and circuit breakers as well as adding rectifiers and cabinets are all standard procedures.

High power density

Free up space for tele and datacom equipment

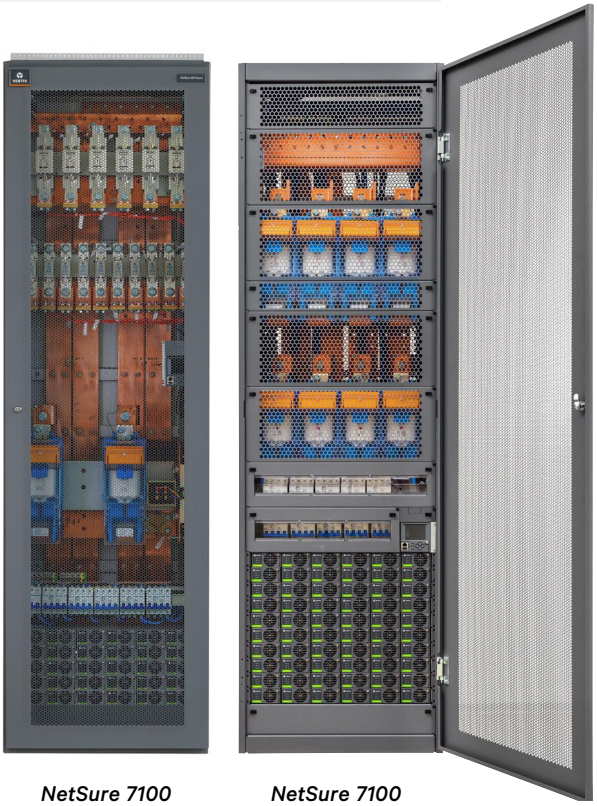
Large power output capability in a space saving cabinet helps to minimize space needed for reliable back up. The space can instead be utilized for revenue generating tele and data equipment.

Power is scalable in power modules of single phase 3,5 kW increments. The NetSure 7100 Semi-Bulk offers 105 kW and multiple distribution options in a single cabinet. It can be used in close proximity to the load or in a dedicated power room using designated NetSure remote distribution cabinets. The powerful NetSure Semi-Bulk XL can provide 210 kW in one footprint and be used in combination with NetSure Remote Distribution Cabinets. Both DC Power and distribution cabinets offer a large variety of distribution units to fit application and system location.

Energy efficiency

Minimizing energy losses to save operating costs

The Semi-Bulk systems are equipped with eSure rectifiers that offers high efficiency operation under all load conditions thanks to its flat efficiency curve. This is valid whether you choose eSure rectifier or the Ultra high efficient 98% efficiency rectifiers. In combination with a system designed to reduce losses will it will result in a very energy efficient backup solution. Even greater energy savings can be achieved on site level with the patented feature Intelligent Load Management. By mapping the energy consumption per equipment rack, hotspots can be detected and site planning can be done to optimize the use of site cooling. This enables possible cost savings on overall site power consumption.



NetSure 7100 Semi-Bulk

NetSure 7100 Semi-Bulk XL

Technical Specifications

AC Input	Semi-Bulk	Semi-Bulk XL
Range	Single phase: 85 to 305 VAC (Nominal 200 VAC to 277 VAC)	
Input Current	22 A / rectifier (max. 660 A)	
Line Frequency	45 to 65 Hz	
Connections	Terminals, 2 x (3w+N+PE)	Terminals, 5 x AC input terminals

DC Output		
Adjustable Range	42 VDC to -58 VDC (Nominal: -48 VDC)	
Power Maximum	105 kW (30 x 3.5 kW rectifier module per cabinet)	210 kW (60 x 3.5 kW rectifier module per cabinet)
Efficiency, Peak	98% with eSure rectifier R48-3500E4 or 96.3% with eSure rectifier R48-3500e3	

DC System Units		
Distribution Units	Available for circuit breakers, NHOO, NH2, NH3 and NH4 fuses	Available for NH4 fuses
Circuit Breakers	From 2 A up to 200 A	-
Fuses	NH00-80 V up to 600 A NH2 up to 400 A NH3 up to 630 A NH4 up to 1250 A	Up to 4 x 800-1600 A NH4A fuses
ILM	Optional, equipment for all distribution units	
Battery Units	2 x 1500 A or 3 x 1500 A circuit breakers Up to 3 x 1250 A or 5 x 630 A fuses	4 x 800-1600 A fuses 3 x 1500 A circuit breakers

Physical Characteristcs		
Mounting	Top and bottom cabling	
Dimension (H x W x D)	2020 mm x 600 mm x 600 mm	
Weight	Maximum 250 kg (without rectifiers and package)	Maximum 325 kg (without rectifiers and package)
Access and Security	Front access IP20 Door with lock as option	Front access IP20 Door with lock as option (for top cabled cabinet only)

Environmental	
Temperature Range, Operating	-5 °C to +60 °C (full power up to +40 °C)
Relative Humidity, Operating	<95%
Altitude	2000 m
Ventilation	Forced ventilated (rectifier fans)

Safety and Standards Compliance	
Electrical	CE EN60950-1
Environmental	REACH, RoHS

Semi-Bulk Cabinet



1. Distribution Units
2. Monitoring Unit
3. Battery Connection Unit
4. Rectifiers



Semi-Bulk XL

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