

# NETSURE™ 7100 SERIES

Stand Alone DC Power System



## KEY FEATURES

- Developed for ease of use, enabling safe and quick power and load adjustments on live systems
- System features world leading power density rectifiers, enabling up to 63 kW applications with plenty of distribution space, all in a single footprint
- Individual current measurement feature displays current reading for each fuse/circuit breaker
- Remote IO terminals are easily and safely accessible for adding new alarm signals
- Cabinet efficiency >99,7% from rectifier output to distribution output enabling maximum system efficiency >96,2% from grid to load
- Remote battery management and load control functions minimize the dependency of reactive site call-outs



**Highly scalable DC Power system with system range from 3,5 kW to 63 kW in a single cabinet that utilize minimal space. The NetSure 7100 series delivers affordable high power density with outstanding efficiency and system reliability.**

### Improving reliability

*Where constant migration and change is the norm*

The NetSure 7100 Series of -48V DC power systems delivers outstanding reliability within a modular, scalable stand-alone cabinet. Power can be scaled in 3,5 kW increments up to 63 kW, alternative up to 21 kW with room for battery back up in the same cabinet. Distribution units can be added, swapped or removed on live sites, making system expansions a standard procedure. Power supply extensions can be made safe-and-easy, without compromising reliability.

### Minimizing energy loss

*Save operating costs and non-renewable resources*

The NetSure 7100 Series minimizes power conversion energy losses, reducing heat dissipation and lowering energy consumption — both on the power supply and the cooling system. Cabinet infrastructure efficiency is greater than 99,7% from rectifier output to breaker output with maximum system efficiency just over 96,2% from grid to load.

### Securing availability

*Instead of deploying costly excess capacity up-front*

With intelligent load management there is no need to install excess capacity up-front to cover for load build-ups and potential overloads. Each load can be monitored and measured down to the distribution, fuse or circuit breaker level. Our NetSure controller displays actual load current utilization in relation to fuse/circuit breaker threshold levels. Site power and load can be added incrementally, at an optimal investment pace, without compromising system reliability and power availability.

## Application

The stand-alone NetSure 7100 Series is the ideal solution for small telecom central office and data center sites requiring reliability and power availability in a small footprint. This single cabinet with embedded battery backup is well suited for replacing less power efficient solutions and wherever frequent load changes require continuous monitoring of individual loads.

## Technical Specifications

### AC INPUT

Range	Single phase: 85 VAC to 300 VAC (Nominal: 200 VAC to 240 VAC)
Line Frequency	50 or 60 Hz (45 Hz to 65 Hz)
Connections	Terminal or distribution for up to 18 circuit breakers
Surge Protection	Optional

### DC OUTPUT

Adjustable Range	-42 VDC to -58 VDC (Nominal: -48 VDC)
Power, Maximum	63 kW (18 x 3,5 kW rectifier modules)
Efficiency, Peak	96,3% eSure™ R48-3500e3 rectifier

### DC SYSTEM UNITS

Distribution Units	Available for circuit breakers, cartridge fuses, NH00 fuses, NH2 fuses
Circuit Breakers	From 2 A up to 200 A
Fuses	NH00 (up to 400 A) and NH2 (up to 400 A)
Intelligent Load Management	Optional, equipment for all distribution units
Battery Connections	4 x (300 A or 400 A) circuit breakers or fuses
Battery Shelves	Optional, up to 4 x 8 U

### PHYSICAL CHARACTERISTICS

Mounting	Top cabling
Dimensions (H x W x D)	2020 mm x 600 mm x 600 mm (per cabinet)
Weight	170 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)
Relative Humidity, Operating	<90%
Altitude	2000 m
Audible Noise	59dB for R48-3500e3
Ventilation	Forced ventilated (rectifier fans)

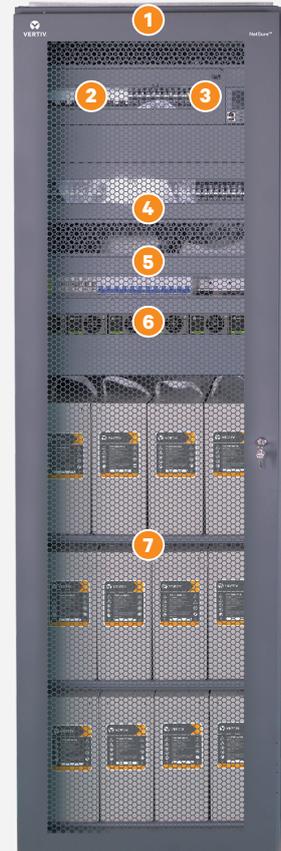
### SAFETY AND STANDARDS COMPLIANCE

Electrical	CE EN60950-1
EMC	EN 300 386-2, Class B
Environmental	REACH, RoHS 6

## Ordering Information

MODEL NUMBER	PART NUMBER	DESCRIPTION
—	BMK220A11	Stand Alone NetSure 7100 DC power system, 42 kW
—	BMK220A12	Stand Alone NetSure 7100 DC power system, 63 kW
1R483500E3	BML440068/1	3,5 kW eSure rectifier, high efficiency
M830D	BMP903100/2	NetSure control unit (2 x 2 U front)

## OVERVIEW



### NetSure 7100 Stand Alone Cabinet

- 1 Screen Door
- 2 Battery Connection Unit
- 3 NetSure Control Unit
- 4 Load Distribution Unit
- 5 AC Distribution Unit
- 6 eSure Rectifiers
- 7 Battery Shelves