NETSURE 7100

Standard Series, 17.5 kW and 31.5 kW

KEY FEATURES

- High Efficiency — 96.3% efficient eSure rectifiers ensure optimized total cost of ownership
- ECO Mode — an innovative function that enables significant energy savings, even at low load operation
- Remote Access — monitoring through web browsers, TCP/IP & SNMP as standard; remote access via GPRS/3G/4G modems and Modbus available as an option
- Battery Management — automatic battery tests in conjunction with optional battery midpoint monitoring ensures early detection of battery problems

NetSure™ 7100 Standard Series is designed for wireless and fixed network access applications.

This 48 VDC power solution, features the advanced NetSure Control Unit (NCU), up to (9) 3500 W high-efficiency eSure™ rectifiers and a multi-function battery and distribution connection unit.

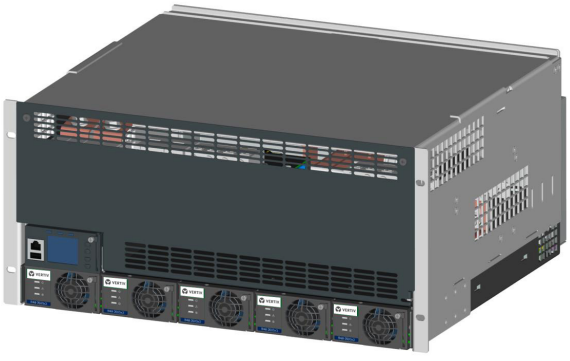
The 17.5 kW subrack comes in a 5U high integrated power shelf and the 31.5 kW subrack in a 6U high integrated power shelf, both supporting 19" rack mounting. The distribution section supports up to (29) load circuit breakers and up to (6) battery circuit breakers. The distribution circuit breakers can be divided into two priority load disconnect levels via dedicated LVD contactors. Prioritized load disconnect can result in significant savings on the backup battery investment.

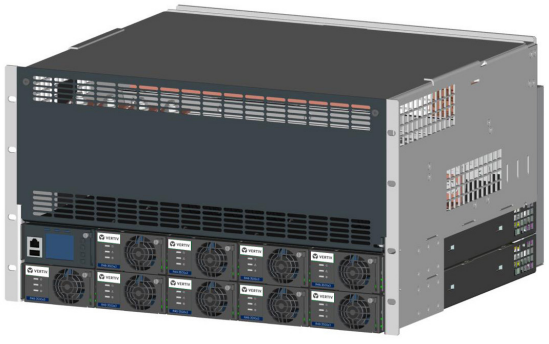
Standard remote monitoring and software upgrades are available through web browsers, TCP/IP and SNMP. Remote access via RS485 (Modbus) as well as GPRS/3G/4G modems are available as options.

NetSure DC Power systems offer extremely low failure rates, as well as low total cost of ownership. The 3500 W eSure rectifier delivers peak system efficiency above 96%. Maximum value is achieved by an advanced energy optimization function known as ECO mode, enabling significant energy savings even at low loads.

Application

The NetSure 7100 Standard Series DC power system is designed for deployment in telecom access network applications requiring a reliable and high power density supply up to 31.5 kW at 48 VDC. The system is available as a subrack for integration in an outdoor enclosure or existing cabinet, mounted on top of a battery rack or integrated in a cabinet.





Technical Specifications

INPUT	17.5 KW	31.5 KW
Nominal	3-phase: 346 VAC to 415 VAC Single phase: 200 VAC to 240 VAC	
Operational	3-phase: 147 VAC to 520 VAC Single phase: 85 VAC to 300 VAC	
Frequency	45 Hz to 65 Hz	
Input Connections	Terminal block (3-phase via 3 x 50 A MCB)	Terminal block (3-phase via 3 x 63 A MCB)

OUTPUT		
Nominal	-48 VDC	
Adjustable Range	-42 VDC to -58 VDC	
Power Capacity	17.5 kW (5 x 3.5 kW)	31.5 kW (9 x 3.5 kW)
Load Capacity	14 kW	24 kW
LVD Contactors	One or two LVD contactors 350 A or 350 A + 200 A	One or two LVD contactors 600 A or 600 A + 200 A
Battery MCB options	1 x 300 A or 400 A 2 x 300 A 2 - 3 x 200 A or 250 A 4 - 6 x 100 A or 125 A	1 x 400 2 x 300 A 2 - 4 x 200 A or 250 A 5 - 6 x 100 A or 125 A
Load MCB Options	18 mm type: 3 A to 63 A 27 mm type: 80 A to 125 A 13 mm type: 2 A to 200 A	

PHYSICAL CHARACTERISTICS		
Mounting	5U high in standard 19" rack	6U high in standard 19" rack
Dimensions (H x W x D)	221.5 mm (5U) x 482.7 mm x 442 mm	265.9 mm (6U) x 482.7 mm x 442 mm
Weight (basic unit without rectifiers)	< 21 kg	< 28 kg
Accessibility	Top/rear cabled with front access	
Back Cover	Included	
Top Cover	Included	

ENVIRONMENTAL	
Normal Operating Temperature	+5 °C to +45 °C

STANDARDS COMPLIANCE	
Safety	EN 60950-1, CE
EMC	ETSI EN 300386 class B
RoHS 6	Compliant
REACH	Compliant

Ordering Information

CATALOG NUMBER	PART NUMBER	DESCRIPTION
NetSure 7100	BMK220x...x*	48 VDC system, fully configured including the NetSure Control Unit (NCU)
R48-3500e3	BML440068/1	Rectifier, 3.5 kW, high efficiency, refer to separate data sheet

* "x...x" to be determined upon request.

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