

KEY FEATURES

- High Efficiency — 96.2% efficient eSure rectifiers ensure optimized total cost of ownership
- Compact Design — height of only 3U makes this subrack ideal when available rack space is limited
- Easy Access — a sliding rail mechanism allows the power shelf to be easily pulled out from the cabinet, facilitating removal or addition of load, battery and supervision connections. Once done, the shelf is simply retracted into the cabinet and secured
- 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™ 5100 Compact Series is designed for wireless and fixed network access applications offering unmatched power density.

This power dense 48 VDC power solution, features the advanced NetSure Control Unit (NCU), up to (4) 2000 W high-efficiency eSure™ rectifiers and a multi-function battery and distribution connection unit.

The 3U high integrated power shelf supports 19" rack mounting and includes a sliding rail mechanism to enable easy access to input and output connections. The distribution section supports up to (14) load circuit breakers and (1) or (2) battery circuit breakers. The distribution circuit breakers can be divided into two priority load disconnect levels via dedicated LVD contactors. Prioritized load disconnect can generate 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 Modbus (RS485) as well as GPRS/3G/4G modems is available as an option.

NetSure DC Power systems offer extremely low failure rates, as well as low total cost of ownership. The 2000 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 5100 Compact Series DC power system is designed for deployment in telecom access network applications requiring a reliable and high power density supply up to 8 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	
Nominal	Single phase: 200 VAC to 240 VAC 3-phase: 346 VAC to 415 VAC
Operational	Single phase: 85 VAC to 300 VAC 3-phase: 147 VAC to 520 VAC
Frequency	45 Hz to 65 Hz
Input Connections	Terminal strip (single phase supply; 1 x 50 A or 3-phase 3 x 32 A)

OUTPUT	
Nominal	-48 VDC
Adjustable Range	-42 VDC to -58 VDC
Power Capacity	8 kW (4 x 2 kW)
Load Capacity	6 kW
LVD Contactors	One or two LVD contactors 200 A or 200 A + 80 A
Battery MCB Options	1 x 150 A, 1 x 200 A, 2 x 100 A or 2 x 125 A
Load MCB Options	252 mm space for load MCB's 18 mm type: 3 A to 63 A 36 mm type: 2 x 50 A and 2 x 63 A (2-pole MCB with paralleled output connection) 54 mm type: 3 x 50 A (3-pole MCB with paralleled output connection)

PHYSICAL CHARACTERISTICS	
Mounting	3U high in standard 19" rack
Dimensions (H x W x D)	132.5 mm (3U) x 482.7 mm x 355 mm
Weight (basic unit without rectifiers)	< 13 kg
Accessibility	Top/rear cabled with front access
Sliding Rail	Access to all connection points when extended
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 5100	BMK110x...x*	48 VDC system, fully configured, including the NetSure Control Unit
R48-2000e3	BML440033/1	Rectifier, 2 kW, high efficiency, refer to separate data sheet

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

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