# **NETSURE 5100**

High Temperature Series, 6 to 24 kW



# **KEY FEATURES**

- High Efficiency 96.2% efficient eSure rectifiers ensure optimized total cost of ownership
- Wide Operating Temperature Range — -40 °C to +80 °C, up to +65 °C without derating, enabling CapEx and OpEx savings on climate systems in outdoor applications
- Decreases CapEx supports up to three load disconnect levels (LVD) enabling optimization of battery capacity
- ECO Mode an innovative function that enables significant energy savings, even at low load operation
- Remote Access and Communication — HTTP/ HTTPS, TCP/IP, IPv4/IPv6, SNMP V2/V3 and Modbus, plus GPRS/3G/4G modems
- Battery Management automatic battery tests in conjunction with battery midpoint or block voltage monitoring ensures early detection of battery problems.

# NetSure<sup>™</sup> 5100 High Temperature Series is designed for wireless access and fixed network applications offering unmatched temperature performance and high power density.

This durable and power dense 48 VDC power solution, features the NetSure Control Unit (NCU), up to (12) 2000 W high-efficiency eSure™ rectifiers and a multi-function battery and distribution connection unit.

The integrated power shelf supports 19" and 23" rack mounting and is available in a number of configurations, designed to work with a wide range of applications. The distribution section supports up to (72) 2 A to 200 A circuit breakers, configured for load or battery breaker. Multiple LVD levels are supported, allowing load prioritization in up to three steps. Prioritized load disconnect can result in significant savings on the back-up battery investment.

Remote monitoring and software upgrades are possible via the NetSure Control Unit (NCU) web interface. Remote access via SNMP and Modbus is supported and optionally via GPRS/3G/4G modems.

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

NetSure 5100 High Temperature Series is designed for deployment in telecom access network applications requiring a reliable and high power density supply up to 24 kW at 48 VDC. The high operating temperature (+65 °C) in conjunction with high operational efficiency has a positive impact on climate system dimensioning in outdoor enclosure applications. 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, and is suitable for insertion into EQ zone 4 compliant cabinets.





# **Technical Specifications**

	6 kW	10 kW	20 kW	12 kW	24 kW	
INPUT						
Nominal		Single phase: 220 VA	C to 240 VAC / 3-phase:	380 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 or circuit breaker					
Surge Protection Device	Optional in configurations with input AC MCB					
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Nominal	-48 VDC					
Adjustable Range	-42 VDC to -58 VDC					
Power	3 x 2 kW	5 x 2 kW	10 x 2 kW	6 x 2 kW	12 x 2 kW	
Main Unit DIN Rail MCB Space for Battery, Load & AC	304 mm 391 mm 485 mm		mm			
Extension Unit DIN Rail MCB Space for Load & AC	N/A 436 mm		530 mm			
27 mm Thermal Magnetic MCB's	80 A to 125 A					
18 mm Thermal Magnetic MCB's	3 A to 63 A					
13 mm Hydraulic Magnetic MCB's	2 A to 300 A					
PHYSICAL CHARACTERISTICS					1	
Mounting	Standard 19" rack mounting			Standard 23" rack mounting		
Dimensions (H x W x D)	482 mm x 330 mm	482 mm x 367 mm	482 mm x 367 mm	578 mm x 367 mm	578 mm x 367 mm	
Weight (basic unit without rectifiers)	7 kg	17 kg	23 kg	19 kg	25 kg	
Accessibility	Top cabled with front access					
Back Cover	Included					
Top Cover	Optional					
			-40 °C to +80 °C			
Temperature Operating Window	-40 °C to 460 °C					
* 12 kW austam: (0 °C to 155 °C with 210 kW load 20 k	Waystom, (0 °C to 155 °C with v	20. kW lood	-40 C to +05 C			
12 KW System: -40 C to +55 C with >10 kW load, 24 k	W system: -40°C to +55°C with 2					
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	BMK110xx*	48 VDC system, fully configured
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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