

# NETSURE 7100

Multi-Tenant DC Power System, 21 kW



## KEY FEATURES

- High Efficiency — 96.3% efficient eSure rectifiers ensure optimized total cost of ownership
- Energy Metering — Provides the possibility for individual energy billing per connected tenant
- 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 monitoring ensures early detection of battery problems

**The NetSure™ 7100 Multi-Tenant system is designed for wireless network access applications where multiple operators/tenants share the site infrastructure.**

This sophisticated 48 VDC power system provides the possibility for separate energy billing per connected tenant and reading of total AC mains usage.

The 21 kW subrack houses up to (6) 3500 W high-efficiency eSure™ rectifiers, the advanced NetSure Control Unit (NCU) and a multi-function battery and distribution connection unit. The distribution section supports (4) load branches with individual KWh energy metering, one load branch for priority load disconnect and up to (3) battery circuit breakers. The distribution section is also equipped with a common KWh energy meter for incoming AC mains supply. The NetSure 7100 subrack comes in a 10U high integrated power shelf in a 23" building structure for mounting on top of a battery rack.

Remote monitoring and software upgrades are possible via the NetSure Control Unit (NCU) web interface. Individual energy meter data is retrievable remotely via SNMP and Modbus. Remote access via 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 Multi-Tenant DC power system is especially suitable in telecom access network applications where multiple operators share common site infrastructure and there is a need to know power usage for each individual tenant and total AC mains usage. The system is delivered as separate sub-rack and flat packed battery stand for assembly on site. This enables easy transportation to site locations on roof tops and in attics. The subrack can also be integrated into an outdoor enclosure or indoor cabinet.



## Technical Specifications - BMK2207101C/006

INPUT	
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	3-phase: via 50 A or 63 A MCB Single phase: via 63 A MCB (max 4 rectifiers are supported)
Energy Meter	kWh counter, phase voltage, phase current, and input power

OUTPUT				
Nominal	-48 VDC			
Adjustable Range	-42 VDC to -58 VDC			
Power Capacity	21 kW if supplied by 3-phase mains 14 kW if supplied by single phase mains			
Battery MCB	2 x 200 A reserved space for 1 additional 200 A battery MCB			
Priority Load via 200 A Contactor	2 x 6 A, 2 x 10 A and 2 x 32 A configurable space for 2 additional load MCB's			
Normal Load via 400 A Contactor	<b>Tenant 1</b> 150 A main MCB configurable space for 8 MCB's	<b>Tenant 2</b> 150 A main MCB configurable space for 8 MCB's	<b>Tenant 3</b> 150 A main MCB configurable space for 8 MCB's	<b>Tenant 4</b> 150 A main MCB configurable space for 8 MCB's
Energy Meter	kWh counter and load current	kWh counter and load current	kWh counter and load current	kWh counter and load current

REMOTE COMMUNICATION PORTS	
Ethernet	IPv4, IPv6, HTTP, HTTPS, SNMPv2, SNMPv3 and Modbus
RS485	Modbus
RS232	Modbus

PHYSICAL CHARACTERISTICS SUB-RACK	
Dimensions (H x W x D)	443.5 mm (10U) x 583.6 mm x 453.3 mm
Weight (without rectifiers)	37 kg
Accessibility	IP20 with rear/top cabling access

ENVIRONMENTAL	
Normal Operation	+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	BMK2207101C/006	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
Battery Rack	BMY1100045/638	Flat packed battery rack (600 W x 600 D x 1106 H) 2 battery strings and 8U 19" space for 3rd party equipment, including battery cables
Battery Rack	BMY1100045/648	Flat packed battery rack (600 W x 600 D x 1462 H) 3 battery strings and 8U 19" space for 3rd party equipment, including battery cables

VertivCo.com | Vertiv Infrastructure Limited, George Curl Way, Southampton, SO18 2RY, VAT Number: GB188146827

© 2016 Vertiv Co. All rights reserved. Vertiv™, the Vertiv logo, NetSure™ Advanced Remote Distribution Cabinet and NetSure Control Unit (NCU) are trademarks or registered trademarks of Vertiv Co. All other names and logos referred to are trade names, trademarks or registered trademarks of their respective owners. While every precaution has been taken to ensure accuracy and completeness herein, Vertiv Co. assumes no responsibility, and disclaims all liability, for damages resulting from use of this information or for any errors or omissions. Specifications are subject to change without notice.