

Vertiv™ NetSure™ 7100

Standard Series, 17.5 kW and 31.5 kW



Benefits

- Optimize your total cost of ownership and minimize carbon emissions with up to 98% high-efficiency eSure™ rectifiers
- Achieve significant energy savings even at low loads with ECO Mode
- Easily monitor and manage your system remotely via standard protocols SNMP and Modbus with local and remote access through web pages supported by all major browsers
- Enhance battery capacity with prioritized load disconnect for up to two disconnect levels (LVD)
- Detect backup problems early with automated battery monitoring and testing

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.



NetSure 7100 Standard 17.5 kW System



NetSure 7100 Standard 31.5 kW System

Technical Specifications

| Input | 17.5 kW | 31.5 kW |
|--|---|--|
| Nominal Voltage | 3-phase: 346 VAC to 415 VAC Single phase: 200 VAC to 240 VAC | |
| Operational Voltage | 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 Voltage | -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 | |
| Environmental | | |
| Normal Operating Temperature | +5 °C to +45 °C | |
| Standards Compliance | | |
| Safety | EN 62368-1, CE | |
| EMC | ETSI EN 300386 class B | |
| Environment | REACH, RoHS | |
| 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 | |

Ordering Information

| Catalog Number | Part Number | Description |
|----------------|--------------|--|
| NetSure™ 7100 | BMK220x...x* | 48 VDC system, fully configured including the NetSure Control Unit (NCU) |
| R48-3000E3B | 1R483000E3B | eSure™ rectifier, 3 kW, 96.5% peak efficiency, refer to separate data sheet |
| R48-3500e3 | BML440068/1 | eSure rectifier, 3.5 kW, 96.3% peak efficiency, refer to separate data sheet |
| R48-3500E4 | BML440069/1 | eSure rectifier, 3.5 kW, 98% peak efficiency, refer to separate data sheet |

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

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