

Vertiv™ NetSure™ 7100 Compact

-48V DC Power System – Up to 900 Amps



Benefits

- Reduce your equipment footprint while meeting the higher power demand of your 5G network.
- Optimize total cost of ownership with ultra high-efficiency eSure™ rectifiers that deliver efficiency up to 98% over a wide operating range
- Extend the life of your batteries with the available battery management tools
- Keep your network power source secure with optional encrypted controller communication

The Vertiv™ NetSure™ 7100 Compact DC power system is designed for wireless access and fixed network applications offering unmatched temperature performance and high power density.

Description

The modular NetSure™ 7100 Compact DC power system with 3500 watt rectifiers provides up to 900 amps of current for -48 volt systems in 11 U of rack space, 23-in wide in outdoor applications. Basic components of the system include an 8 U distribution cabinet, a NetSure™ Control Unit (NCU), and slots for up to 17 rectifiers. NetSure 7100 Compact systems are compatible with ultra-high efficiency R48-3500E4 rectifiers that operate at 98% efficiency over a wide load range. The low voltage battery disconnect option provides protection against excessive battery discharge and/or emergency battery disconnect.

The distribution section of the plant provides 52 bullet circuit breaker positions. Distribution device options include 1 amp to 300 amp bullet-style circuit breakers. The system is also available with 11 rectifier positions in a total height of 10 U for a rectifier capacity of 600 amps.

Application

Vertiv™ NetSure™ 7100 Compact DC power systems are designed for deployment in telecom access network applications requiring a reliable and high power density supply up to 900 A at -48 VDC. The high operating temperature (900 A system rating at +65°C) in conjunction with high operational efficiency has a positive impact on climate system dimensioning in outdoor enclosure applications. This DC power system is designed for insertion into EQ Zone 4 compliant cabinets.



600 amp Outdoor System



900 amp Outdoor System

Technical Specifications

| AC Input | 582127000900 | 582127000901 | 582127000600 | 582127000601 |
|-----------------------------------|--|--------------|---------------------------|----------------|
| System Voltage | 208/240/277 VAC, single phase (operational) | | | |
| Rectifier Voltage | 208 to 277 VAC (nominal) | | | |
| Frequency | 45 Hz to 65 Hz | | | |
| Input Connections | Terminal block (up to 6 AWG) for individual or dual rectifier feed | | | |
| DC Output | | | | |
| Voltage | -48 VDC to -58 VDC | | | |
| System Capacity | 900 A @ +65 °C | | | 600 A @ +65 °C |
| Load Distribution Rating | 900 A @ +65 °C | | | |
| Individual Rectifier Output Power | 3500 W | | | |
| Breakers | Two horizontal rows of (26) bullet positions each, (52) total | | | |
| Low Voltage Disconnect | LVBD | No LVBD | LVBD | No LVBD |
| Physical Characteristics | | | | |
| Mounting | Standard 23" W rack mounting | | | |
| Dimensions (H x W x D) | 11U (19.2") x 23" x 20.4" | | 10U (17.5") x 23" x 20.4" | |
| Weight | 138 | | 125 | |
| Framework Type | Rail-mount (can be mounted in an enclosure) | | | |
| Access | Front and rear for installation, Front for operation and maintenance | | | |
| Environmental | | | | |
| Operating Temperature | -40°C to + 65°C (-40°F to +149°F) | | | |
| Storage | -40°C to +70°C (-40°F to +158°F) | | | |
| Humidity | 0 to 95% non-condensing | | | |
| Ventilation | Rectifiers are fan-cooled front to rear | | | |
| Altitude | -200 feet to 10,000 feet. The maximum operating ambient temperature should be de-rated by 3°C per 1000 feet above 6562 feet. | | | |
| Standards Compliance | | | | |
| Safety | UL 62368 Recognized | | | |
| EMI/RFI Suppression | Conforms to FCC rules Part 15, Subpart B, Class B and EN55022 Class B, radiated and conducted | | | |
| NEBS | NEBS Level 3, GR3108 Class 2 | | | |

Ordering Information

| Part Number | Description |
|------------------|--|
| 582127000900 | NetSure™ 7100 Compact Series, -48 VDC, 900 A outdoor power system e/w LVBD |
| 582127000901 | NetSure 7100 Compact Series, -48 VDC, 900 A outdoor power system (no LVBD) |
| 582127000600 | NetSure 7100 Compact Series, -48 VDC, 600 A outdoor power system e/w LVBD |
| 582127000601 | NetSure 7100 Compact Series, -48 VDC, 600 A outdoor power system (no LVBD) |
| 1R483500E4 | Ultra high-efficiency eSure™ rectifier, -48 VDC, 3500 W |
| 1R483500E3 | High-efficiency eSure™ rectifier, -48 VDC, 3500 W |
| 1M830BNA10014511 | NCU controller |

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