

NetSure™ 7100 Outdoor System

-48 VDC, Up to 900 Amps



Benefits

- Optimize total cost of ownership with high-efficiency eSure™ rectifiers that deliver efficiency above 96% 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 NetSure™ 7100 outdoor 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 outdoor 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. 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

NetSure™ 7100 outdoor 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 Outdoor System, -48 VDC, 900 A outdoor power system e/w LVBD |
| 582127000901 | NetSure 7100 Outdoor System, -48 VDC, 900 A outdoor power system (no LVBD) |
| 582127000600 | NetSure 7100 Outdoor System, -48 VDC, 600 A outdoor power system e/w LVBD |
| 582127000601 | NetSure 7100 Outdoor System, -48 VDC, 600 A outdoor power system (no LVBD) |
| 1R483500E3 | eSure™ high-efficiency rectifier, 3500 watt |
| 1M830BNA10014511 | NCU controller |

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