

# 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 high-efficiency eSure™ rectifiers that deliver efficiency over 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 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. 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			
<b>DC Output</b>				
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
<b>Physical Characteristics</b>				
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			
<b>Environmental</b>				
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.			
<b>Standards Compliance</b>				
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)
1R483500E3	High-efficiency eSure™ rectifier, -48 VDC, 3500 W
1M830BNA10014511	NCU controller

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