# NetSure<sup>™</sup> 7100 Compact Series

-48V DC Power System – Up to 500 Amps



## **Benefits**

- Optimize total cost of ownership with high-efficiency eSure™ rectifiers that deliver efficiency above 96% over a wide operating range
- Increase battery discharge time with priority or non-priority low voltage disconnect option
- Support colocation with (3) separate load branches
- Extend the life of your batteries with the available battery management tools
- Keep your network power source secure with optional encrypted controller communication
- Have peace of mind with this UL Listed and NEBS certified power system

# The NetSure<sup>™</sup> 7100 Compact Series is designed for wireless access and fixed network applications offering unmatched temperature performance and high power density.

#### Description

The modular NetSure 7100 Compact Series DC power system with 3500 watt rectifiers provides up to 500 amps of current for -48 volt systems in 8 U of rack space, 19-in wide in indoor and outdoor applications. Basic components of the subrack include a 6 U distribution cabinet, a NetSure™ Control Unit (NCU), and slots for up to nine rectifiers where the top row contains space for the NCU plus four rectifiers and the bottom row holds five rectifiers. Low voltage disconnect options can be included for discharge time improvement and battery health. An optional door and top cover are available for indoor use.

The distribution section of the plant is split up into three branches of circuit breaker positions. The current in each branch is monitored by the controller. Two of the branches can include an optional load low-voltage disconnect. Distribution device options include 1 amp to 300 amp bullet-style circuit breakers.

#### Application

NetSure<sup>™</sup> 7100 Compact Series indoor and outdoor DC power systems are designed for deployment in telecom access network applications requiring a reliable and high power density supply up to 500 A at -48 VDC. The high operating temperature (350A 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 relay racks and cabinets.





Indoor System

Outdoor System



### **Technical Specifications**

AC Input	582137100101	582137100103	582137100105	582137100102	582137100104	582137100106	
System Voltage	120/208/240 VAC, single phase (operational)						
Rectifier Voltage	200 to 240 VAC (nominal)						
Frequency	45 Hz to 65 Hz						
Input Connections	Terminal block (up to 6 AWG) for individual rectifier feed						
DC Output							
Voltage	-48 VDC to -58 VDC						
System Capacity	350 A @ +65 °C			500 A @ +40 ℃			
Branch Rating	117 A for load 1, 2 and priority			167 A for load 1, 2 and priority			
Rectifier Output Power	3500 W						
Breakers	(21) (6 on Load 1 bus, 6 on Lo			.oad 2 bus, 9 on Priority bus)			
Low Voltage Disconnect	LVBD, (2) LVLD (Load 1 and Load 2)	No LVD	LVBD	LVBD, (2) LVLD (Load 1 and Load 2)	No LVD	LVBD	
Physical Characterist	ics						
Mounting	Standard 19" W rack mounting						
Dimensions (H x W x D)	6U (10.5") x 19" x 15.55"			8U (14") x 19" x 16.53" with top and front cover			
Weight	49	54	42	47	46	51	
Framework Type	Rail-mount (can be mounted in an enclosure)			Rail-mount (can be mounted in a relay rack)			
Access	Front and rear for installation, Front for operation and maintenance						
Environmental							
Operating Temperature	-40°C to +65°C (-40°F to +149°F)			-40°C to +40°C (-40°F to +104°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 Complianc	e						
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 Informati	on						
Dort Number	Decorintion						

Part Number	Description		
582137100101	NetSure™ 7100 Compact, -48 VDC, 500 A outdoor power system e/w (2) LVLDs and LVBD (no front door and top cover)		
582137100102	NetSure 7100 Compact, -48 VDC, 500 A indoor power system e/w (2) LVLDs and LVBD		
582137100103	NetSure 7100 Compact, -48 VDC, 500 A outdoor power system (no LVDs, no front door and top cover)		
582137100104	NetSure 7100 Compact, -48 VDC, 500 A indoor power system e/w front door and top cover (no LVDs)		
582137100105	NetSure 7100 Compact, -48 VDC, 500 A outdoor power system e/w LVBD (no front door and top cover)		
582137100106	NetSure 7100 Compact, -48 VDC, 500 A indoor power system e/w LVBD, front door and top cover		
1R483500E3	eSure™ high-efficiency rectifier, 3500 watt		
1M830BNA10009548	NCU controller for 582137100101 and 102 e/w (1) LVBD and (2) LVLDs		
1M830BNA10008994	NCU controller for 582137100103 and 104 (no LVDs)		
1M830BNA10008996	NCU controller for 582137100105 and 106 e/w LVBD		

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