

### Key Features

- Cost-effective, allows for easy expansion, local /remote control & supervision via an advanced controller.
- Can be installed against a wall.
- Frontal access & Top cabling design for easy installation & maintenance.
- Rectifier working temperature range(-40°C ~ 70°C), outstanding environmental adaptability.
- Rectifier with a streamlined soft-switching technology, raising the rated efficiency up to 96.3%
- Hot pluggable rectifier modules- easy and fast online maintenance.
- Comprehensive lightning protection design on the AC side & DC side, and the signal terminal
- Intelligent battery management function, which prolongs battery life
- **ECO mode function:** Embedded with an advanced energy optimization technique ensuring high efficiency at varying load levels.

### Description

NetSure™ 701 series DC power system, with integrated digital signal processing control technology, exhibits high reliability, high power density, and high performance. Its cutting-edge design, based on years of experience and expertise in development, makes it well-equipped to meet the needs of today's telecom industry. Its turnkey features include local/remote control and supervision via an advanced controller, configurable distribution units, and robust cabinets, and enable it to meet the various demands of the industry.



NetSure™ 701 Series

### Electrical Parameters

#### Input Data

Input Voltage NetSure 701 A02:110/120 Vac; NetSure 701 A03 : 220Vac

Frequency range 45-65Hz

Power factor 0.99

#### Output Data

Nominal Output Voltage -48Vdc

Operating Voltage Range -42 Vdc to -58Vdc

Output voltage variation 0.5%

Max output current  $\leq 67Ax n / \leq 73Ax n$  ( n representing the amount of the rectifier, 2-24)

Output Power/System 69.6kW/84kW

Load Sharing  $\leq + -3\%$

### Mechanical and Environmental Parameters

	NetSure™ 701 A02-T1, NetSure™ 701 A03-T1 rectifier cabinet	PD48/2000DU Distribution Cabinet (top cabling)	PD48/2000DD Distribution Cabinet (bottom cabling)
Dimensions (HxWxD) (mm)	2350x600x600 (Excluding rectifiers)	2350x600x600	2200x600x600
Weight (kg)	270	260	260
Operating Temperature	-10 to +65°C (Derating from 40°C)		
Storage Temperature	-25 to +85°C		
Relative Humidity	$\leq 95\%RH$		
Elevation	$\leq 2000m$ (Derating from 2000M)		

## Controller Module-M830D

Display	320 x 240 Pixels TFT LCD	
Communication Interface	RS 232, Rs485, Ethernet, USB	
Protocol	IPv4, IPv6, HTTPS, SNMP V2/V3, EEM, SocTpe, Rsoc, Modbus	
Input	Analog	2 battery currents, 1 load current, 1bus voltage, 2battery voltages, 3 temperatures, 1 fuel level sensor and much more with additional interface boards
	Digital	1 input for status of surge protective device auxiliary contacts, 12 load fuses, 6 battery fuses, bi-stable contactor status
Protocol	3 LVD mono & bistable contactors	
Key Features	<ul style="list-style-type: none"> <li>• Menu operated and user friendly</li> <li>• Intelligent battery management</li> <li>• Stores up to 4000 alarm history logs</li> <li>• Energy saving and Power split function</li> </ul>	



M830D

Rectifier Parameters	R48-2900U	R48-3500e
Input voltage range	Nominal: 200-250VAC Permitted variation: 85 to 290 VAC	Nominal: 200-277VAC Permitted variation: 85 to 305 VAC
Power factor	0.99	
THDi	<5% from 50 to 100% of rated load	
Output voltage	-42 to -58 VDC	
Output Power	2900W	3500W
Max output current	60A	73A
Efficiency	92%	96.3%
Temperature range	-40 to +60°C	-40 to +75°C
RH (non-condensing)	0 to 95%	
EMC	EN 300 386:2001 class A, FCC part 15 class A	EN 300 386:2001, class B & FCC part 15, classB
Dimensions	132W x 85.3H x 217D (mm)	
Weight	3.5kg	



R48-2900U



R48-3500e

## DC Distribution

<b>Low Ohmic Distribution Unit (LOD)</b>	<ul style="list-style-type: none"> <li>• Dimensions: 132.5 (H) × 584 (W) × 250 (D)</li> <li>• Up to 28 pcs MCBs rated from 6-125 A</li> </ul>
<b>High Ohmic Distribution Unit (HOD)</b>	<ul style="list-style-type: none"> <li>• Dimensions: 132.5 (H) × 584 (W) × 250 (D)</li> <li>• Up to 35 pcs 16A MCBs</li> <li>• Each MCB is connected to a 40m resistor</li> </ul>
<b>Fuse Unit</b>	<ul style="list-style-type: none"> <li>• Dimensions: 427 (H) × 584 (W) × 354 (D)</li> <li>• Up to 6 NT2, NT3 fuses rated from 160 – 630 A or up to 11 NT00 fuses rated from 6 - 160A</li> </ul>
<b>Battery / Load Connection Unit</b>	<ul style="list-style-type: none"> <li>• Dimensions: 383.5 (H) × 554 (W) × 190 (D)</li> <li>• Up to 4 pcs NT4 fuses rated from 800 – 1250 A</li> <li>• Battery / Load fuses: 1 – 4</li> </ul>



Fuse Unit



Battery / Load Connection Unit