The NetSure™ 7100 DC Series with 400 VDC input reduces copper distribution cost and provides the flexibility to use existing -48 VDC equipment.

### Description

The modular NetSure 7100 Series with 400 VDC Input provides up to 4000 amps of -48 VDC output current. The basic components of the power system include the ACU+ control unit, DC to DC converter shelf assemblies and a modular distribution cabinet.

The NetSure 7100 power system contains a powerful, micro-processor-based control system capable of monitoring and controlling up to 60 C400/48-3500e converters. The ACU+ controller provides a 4x16-character alphanumeric display, which can be activated at the touch of a keypad.

Each shelf can accommodate up to six plug’n’play C400/48-3500e converters, which are controlled by the ACU+.

Distribution device options include 1 amp to 250 amp bullet-style circuit breakers, 3 amp to 125 amp TPS-style fuses in plug-in bullet-style holders, 100 amp to 800 amp GJ/218-style circuit breakers, 70 amp to 250 amp TPL-B style fuses and 70 amp to 600 amp TPH-style fuses. These devices can be configured for both -48 V loads and battery disconnect. A GMT fuse module is also available.

### KEY FEATURES

- High Efficiency Over 97% — reduces power consumption for lower operating cost
- 3500 W Converter — designed to operate from nominal 400 VDC source to provide -48 VDC load power
- Advanced Controller — offers battery management, site monitoring and configuration management
- Remote Access — options allow users to view, control and interact with the system using an Ethernet interface
- Plug’n’Play — add modular converters without changing the settings and making adjustments; no system interruption
- Front Accessible — allows for easy installation, additions and maintenance
- Wide Input Voltage Range — for operation during battery discharge down to 260 VDC
- Safety Compliance — NEBS Level 3 certification (pending); UL Listed to UL subject 1801

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**NetSure™ 7100 DC Series with 400 VDC Input**

**High-Efficiency eSure™ C400/48-3500e Converter**
Technical Specifications (System)

SYSTEM FEATURES
- Input Voltage, Nominal: 400 VDC (260 VDC to 400 VDC range)
- Output Voltage: -48 VDC (-42.0 VDC to -58.0 VDC range)
- Control: Microprocessor (ACU+)

RATED OUTPUT CAPACITY
- Bay: 2000 amps (48 VDC)
- Converter: 3500 W (C400/48-3500e)
- Shelf: 438 amps (3 RU shelf)
- Distribution Panel: 600 amps

PHYSICAL CHARACTERISTICS
- Framework Type: Relay rack (can be mounted in enclosures)
- Mounting Width: 23 inches
- Mounting Depth: 20 inches
- Access: Front access for installation, operation and maintenance

ENVIRONMENTAL
- Operating Temperature: -40 °F to 104 °F (-40 °C to 40 °C) continuous operation
- Storage: -40 °F to 185 °F (-40 °C to 85 °C)
- Humidity: 0% to 95% relative humidity, non-condensing
- Ventilation: Converters are fan-cooled front to rear
- EMI/RFI Suppression: Conforms to FCC rules Part 15, Subpart B, Class A and EN55022 Class A, radiated and conducted
- Safety Compliance: UL Listed 1801, cUL, (NEBS Level 3 pending)

Ordering Information

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
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<tbody>
<tr>
<td>582127000</td>
<td>NetSure™ 7100 DC power system</td>
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<tr>
<td>1M820DNA</td>
<td>ACU+ controller</td>
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<tr>
<td>1C400483500E</td>
<td>3500 watt eSure™ C400/48-3500e converter</td>
</tr>
<tr>
<td>588705000</td>
<td>Power shelf for 3 RU (3500 watt) rectifiers and converters</td>
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</tbody>
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NetSure™ 7100 with 400 VDC Input

1. 400 VDC Input Connection Panel (both sides)
2. DC Distribution Cabinet
3. ACU+ Controller
4. Converters
5. Relay Rack

eSure Converter Efficiency Curve