

MANUFACTURER DOCUMENT PACKAGE

# Manufacturer's Manual

Selected official pages for procurement and maintenance review

PRODUCT BRAND

Bently Nevada

PRODUCT MODEL

3500/15 127610-01

3500/15 127610-01 - Legacy AC rack power supply  
Selected manufacturer pages; verify exact configuration.

OFFICIAL SOURCE

Datasheet 141530-01 Rev. F

[Open current manufacturer source](#)

AMIKON PRODUCT SUPPORT

+86-18020776786      [INFO@AMIKON.CN](mailto:INFO@AMIKON.CN)

[AMIKONG.COM](http://AMIKONG.COM)

Amikon Limited prepared this independent reference package. Selected manufacturer pages follow with their original content and pagination visible.

# GE Measurement & Control

## 3500/15 Power Supply

### Product Datasheet

Bently Nevada\* Asset Condition Monitoring

---



#### Description

The 3500/15 Power Supply is a half-height module and must be installed in designated slots on the left side of the rack. The 3500 rack can contain one or two power supplies with any combinations of AC and DC. Either supply can power a full rack.

When two power supplies are installed in a rack, the one in the lower slot acts as the primary supply, and the other in the upper slot acts as the backup supply. If installed, the second supply is the backup for the primary one.

Removing or inserting either power supply module does not disrupt operation of the rack as long as a second power supply is installed.

The 3500/15 Power Supply accepts a wide range of input voltages and converts them to voltages acceptable for use by other 3500 modules. The following power supplies are available with the 3500 Series Machinery Protection System:

- Legacy AC Power
- Universal AC Power
- High Voltage DC Power Supply
- Low Voltage DC Power Supply



# Specifications

## Inputs

The following voltage options are available:

| Legacy High Voltage AC |                                                                                                                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description            | This option uses the AC power supply and the High Voltage AC Power Input Module (PIM).                                                                                                                                         |
| Input voltage          | 220 Vac nominal<br>175 to 264 Vac rms<br>247 to 373 Vac pk<br><br>Installations using AC Power Input Modules (PIM) prior to Rev. R and AC Power Supply Modules prior to Rev. M require an input voltage of 175 to 250 Vac rms. |
| Input frequency        | 47 to 63 Hz                                                                                                                                                                                                                    |
| Legacy Low Voltage AC  |                                                                                                                                                                                                                                |
| Description            | This option uses the AC power supply and the Low Voltage AC Power Input Module (PIM).                                                                                                                                          |
| Input voltage          | 110 Vac nominal<br>85 to 132 Vac rms<br>120 to 188 Vac pk<br><br>Installations using AC Power Input Modules (PIM) prior to Rev. R and AC Power Supply Modules prior to Rev. M require an input voltage of 85 to 125 Vac rms.   |
| Input frequency        | 47 to 63 Hz                                                                                                                                                                                                                    |
| Universal Voltage AC   |                                                                                                                                                                                                                                |
| Description            | This option uses the universal AC Power Supply and universal AC Power Input Module (PIM).                                                                                                                                      |
| Input Voltage          | 110 to 220 Vac nominal<br>85 to 264 Vac rms<br>120 to 373 Vac pk<br><br>The universal AC Power Supply and Power Input Module are not compatible with the legacy High Voltage AC or Low Voltage AC units.                       |
| Input Frequency        | 47 to 63 Hz                                                                                                                                                                                                                    |

| High Voltage DC         |                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Description             | This option uses the High Voltage DC Power Supply and the High Voltage DC Power Input Module (PIM).                                        |
| Input voltage           | 88 to 140 Vdc                                                                                                                              |
| Low Voltage DC          |                                                                                                                                            |
| Description             | This option uses the Low Voltage DC Power Supply and the Low Voltage DC Power Supply Input Module (PIM).                                   |
| Input voltage           | 20 to 30 Vdc                                                                                                                               |
| Out of Range Protection | For all power supply options, an under-voltage does not harm the supply or the PIM.<br>An over-voltage causes the fuse to open on the PIM. |
| Full Rack Current Draw  |                                                                                                                                            |
| High voltage AC         | 2.3 A rms (maximum)                                                                                                                        |
| Low voltage AC          | 4.5 A rms (maximum)                                                                                                                        |
| Universal voltage AC    | 2.8 A rms (maximum)                                                                                                                        |
| High voltage DC         | 2.5 A (maximum)                                                                                                                            |
| Low voltage DC          | 10.0 A (maximum)                                                                                                                           |
| Outputs                 |                                                                                                                                            |
| Front Panel LEDs        |                                                                                                                                            |
| Supply OK LED           | Indicates when the power supply is operating properly                                                                                      |

## Physical

| Power Supply Module                    |                                                            |
|----------------------------------------|------------------------------------------------------------|
| Dimensions<br>(Height x width x depth) | 120.7 mm x 50.8 mm x 251.5 mm<br>4.75 in x 2.0 in x 9.9 in |
| Weight                                 | 1.39 kg<br>3.06 lb                                         |
| Power Input Modules                    |                                                            |
| Dimensions<br>(Height x width x depth) | 120.7 mm x 25.4 mm x 114.3 mm<br>4.75 in x 1.0 in x 4.5 in |
| Weight                                 | 0.34 kg<br>0.75 lb                                         |

## Rack Space Requirements

|                     |                                                                                                                                                                                                      |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power supply module | Two half-height slots are located on the left side of the rack. Each slot accommodates one power supply. Both slots can hold a power supply at the same time, allowing for redundant power supplies. |
| Power input module  | Special half-height module located directly behind the associated power supply                                                                                                                       |

## Miscellaneous

|                 |                                   |
|-----------------|-----------------------------------|
| Minimum loading | No minimum rack load is required. |
|-----------------|-----------------------------------|

## Environmental Limits

|                       |                                       |
|-----------------------|---------------------------------------|
| Operating temperature | -30 °C to +65 °C<br>-22 °F to +150 °F |
| Storage temperature   | -40 °C to +85 °C<br>-40 °F to +185 °F |
| Humidity              | 95%, non-condensing                   |

## Compliance and Certifications

|                   |                                                                                                                                                                                                      |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EMC               | <b>Standards:</b><br>EN 61000-6-2 Immunity for Industrial Environments<br>EN 61000-6-4 Emissions for Industrial Environments<br><br><b>European Community Directive:</b><br>EMC Directive 2014/30/EU |
| Electrical Safety | <b>Standards:</b><br>EN 61010-1<br><br><b>European Community Directive:</b><br>LV Directive 2014/35/EU                                                                                               |

# Hazardous Area Approvals

For the detailed listing of country and product specific approvals, refer to the **Approvals Quick Reference Guide**, document 108M1756, at [www.GEmeasurement.com](http://www.GEmeasurement.com).

|                                      |                                                                                                                                                                                                                                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CSA / NRTL/C<br>(Approval Option 01) | Ex nC [L] IIC T4 Gc<br>Class I, Division 2,<br>Groups A, B, C, D<br><br>Class I, Zone 2<br>AEx nC IIC T4 Gc<br>Class I, Division 2<br>Groups A, B, C, D<br><br>T4 @ Ta = -20 °C to +65 °C<br>(-4 °F to +150 °F)<br>per drawing 149243 or 138547 |
| ATEX / IECEx<br>(Approval Option 02) | <br>II 3 G<br>Ex nA nC ic IIC T4 Gc<br><br>T4 @ Ta = -20 °C to +65 °C<br>(-4 °F to +150 °F)                                                                    |



## Ordering Information

For the detailed listing of country and product specific approvals, refer to the **Approvals Quick Reference Guide**, document 108M1756, at [www.GEmeasurement.com](http://www.GEmeasurement.com).

## Product Description

### 3500/15 AXX - BXX - CXX

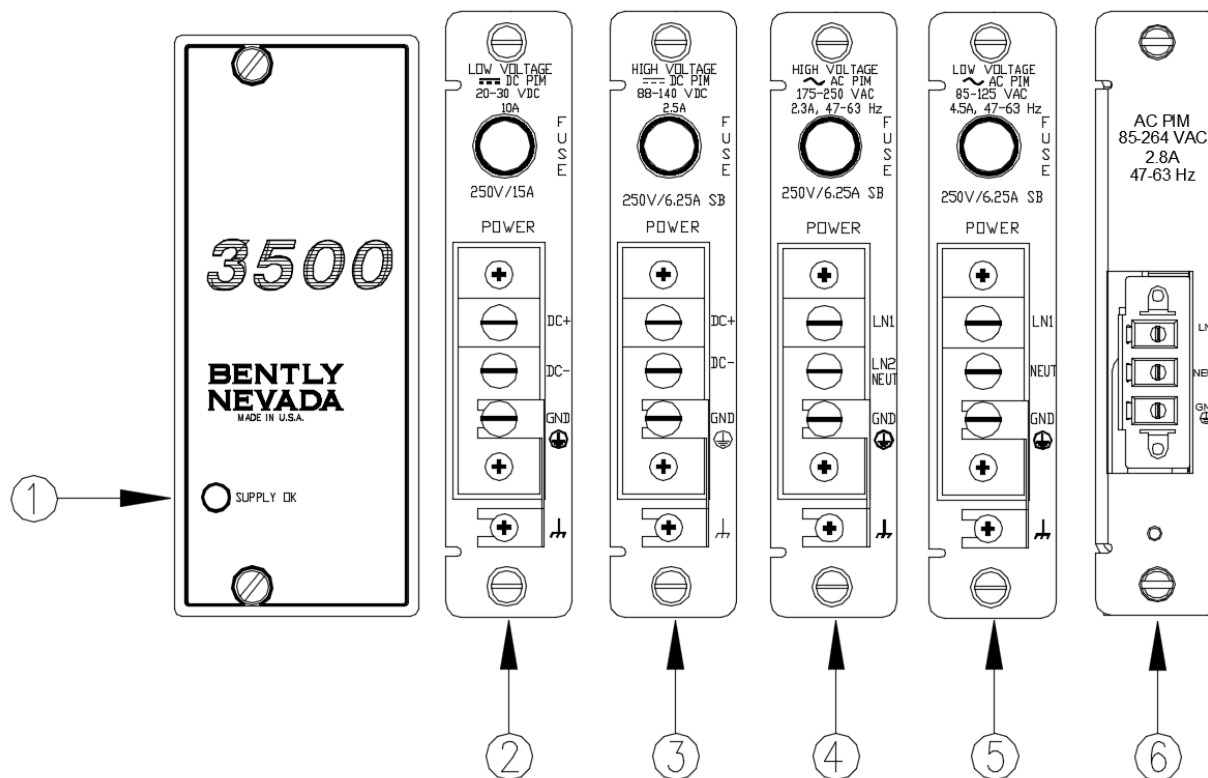
- A:** Power Supply Type (Top Slot)
- 01** Low Voltage AC (85 to 132 Vac rms)
  - 02** High Voltage AC (175 to 264 Vac rms)
  - 03** High Voltage DC (88 to 140 Vdc)
  - 04** Low Voltage DC (20 to 30 Vdc)
  - 05** Universal AC Voltage (85 to 264 Vac rms)
- B:** Power Supply Type (Bottom Slot)
- 00** No supply (Used when no supply is required)
  - 01** Low Voltage AC (85 to 132 Vac rms)
  - 02** High Voltage AC (175 to 264 Vac rms)
  - 03** High Voltage AC (88 to 140 Vdc)
  - 04** Low Voltage AC (20 to 30 Vdc)
  - 05** Universal AC Voltage (85 to 264 Vac rms)
- C:** Agency Approval
- 00** None
  - 01** CSA / NRTL / C (Class 1, Division 2)
  - 02** ATEX / IECEx / CSA (Class 1, Zone 2)

## Spares

| Part Number | Description                                                                                                |
|-------------|------------------------------------------------------------------------------------------------------------|
| 127610-01   | AC Power Supply Module                                                                                     |
| 125840-01   | High Voltage AC Power Input Module                                                                         |
| 125840-02   | Low Voltage AC Power Input Module                                                                          |
| 106M1079-01 | Universal AC Power Supply Module                                                                           |
| 106M1081-01 | Universal AC Power Input Module                                                                            |
| 129486-01   | High Voltage DC Power Supply Module                                                                        |
| 129478-01   | High Voltage DC Power Input Module                                                                         |
| 133292-01   | Low Voltage DC Power Supply Module                                                                         |
| 133300-01   | Low Voltage DC Power Input Module                                                                          |
| 01720025    | Replacement Fuse (for both AC Power Input Module and High Voltage DC Power Input Modules)                  |
| 01720045    | Replacement Fuse (Low Voltage DC Power Input Module)                                                       |
| 113M0744    | Replacement Fuse<br>Fast blow rated at 5A/250 Vac<br>Size 6.3 x 32 mm<br>(Universal AC Power Input Module) |
| 129767-01   | Power Supply Operations and Maintenance Manual                                                             |
| 102M3992    | Replacement connector for Universal AC Power Input Module and DC Power Input Modules                       |

## Graphs and Figures

The following picture depicts the front and rear view of 3500/15 Power Supply and Input Modules:



- 1: 3500/15 Power Supply OK LED
- 2: Low Voltage DC Power Input Module
- 3: High Voltage DC Power Input Module
- 4: Legacy High Voltage AC Power Input Module
- 5: Legacy Low Voltage AC Power Input Module
- 6: Universal AC Voltage Power Input Module

© 1999 - 2016 Bently Nevada, Inc. All rights reserved.

\* Denotes a trademark of Bently Nevada, Inc., a wholly owned subsidiary of General Electric Company.

The information contained in this document is subject to change without prior notice.

Printed in USA. Uncontrolled when transmitted electronically.

1631 Bently Parkway South, Minden, Nevada USA 89423

Phone: 1-775.782.3611 Fax: 1-775.215.2873

[www.GEmeasurement.com](http://www.GEmeasurement.com)

Part Number: 141530-01

Rev. F (08/16)