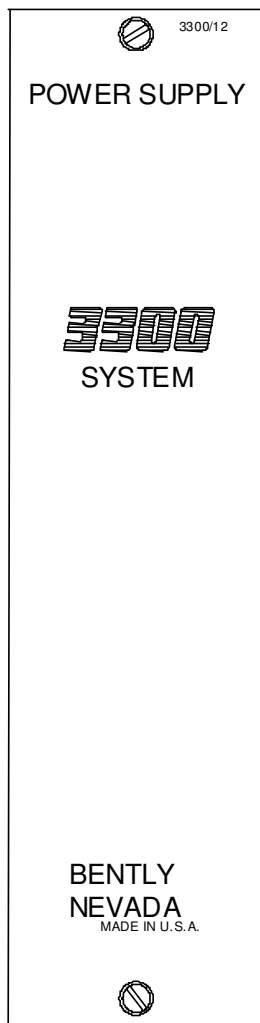


# 3300/12 ac Power Supply

Bently Nevada™ Asset Condition Monitoring



## Description

The 3300 ac Power Supply delivers reliable, regulated power for up to 12 monitors and their associated transducers. A second Power Supply in the same rack is never required.

The Power Supply is installed in the left-most location (position 1) in a 3300 rack, and converts 115 Vac or 220 Vac into dc voltages used by the monitors installed in the rack. The Power Supply is equipped with a line noise filter as standard.

## Warning

A transducer field wiring failure, monitor failure, or loss of primary power can cause loss of machinery protection. This could result in property damage and/or bodily injury. Therefore, we strongly recommend connection of an external annunciator to the OK relay terminals.



imagination at work

Specifications and Ordering Information  
Part Number 141496-01  
Rev. H (04/07)

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## Specifications

### Inputs

#### Power:

95 to 125 Vac, single phase, 50 to 60 Hz, at 1.0 A maximum, or 190 to 250 Vac single phase, 50 to 60 Hz, at 0.5 A maximum. Field changeable via soldered jumper and replacement of external fuse.

#### Primary Power Surge at Power-up:

26 A peak, or 12 A rms, for one cycle.

#### Fuse Rating, 95 to 125 Vac:

95 to 125 Vac: 1.5 A slow blow  
190 to 250 Vac: 0.75 A slow blow

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### Outputs

#### Transducer Power (internal to rack):

User-programmable -24 Vdc, +0%, -2.5%; or  
-18 Vdc, +1%, -2%; transducer voltages are overload protected, per channel, on the individual monitor circuit boards.

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### OK Relay

#### Location:

Behind the Power Supply, at the Power Supply Input Module.

#### Type:

Single-pole, double-throw (SPDT).

#### Environmental Sealing:

Hermetically-sealed.

#### Contact Ratings (resistive load):

5 A at 28 Vdc; 5 A at 120 Vac, 50/60 Hz; 3 A at 220 Vac, 50/60 Hz.

#### Ratings for systems requiring agency approval:

5 A at 28 Vdc; 5 A at 120 Vac, 50/60 Hz (30 Vac for ATEX).

#### Contact Life:

10,000 cycles minimum at rated load.

#### Operation:

normally energized.

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### Environmental Limits

#### Operating Temperature:

0°C to +65°C (+32°F to +150°F).

#### Storage Temperature:

-40°C to +85°C (-40°F to +185°F).

#### Relative Humidity:

To 95%, noncondensing.

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### CE Mark Directives

#### EMC Directive

Certificate of Conformity: 158710

#### Low Voltage Directive

Certificate of Conformity: 135300

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### Hazardous Area Approvals

#### CSA/NRTL/C

Class I, Div 2  
Groups A, B, C, D  
T4 @ Ta = +65 °C

#### Certification Number

150368 – 1002151 (LR 26744)

**ATEX**



II 3 G

EEx nC[L] IIC

T4 @ Ta = -20°C to +60°C

When installed per document  
number 132577-01.

Certification  
Number

**BN26744C-55A**

**Physical**

**Space**

**Requirements:**

One rack position. Installs only in  
position one (left-most position,  
next to System Monitor).

**Weight:**

1 kg (2.2 lbs.).

**Ordering Information**

For spares, order the complete catalog number as  
described below. This includes a front panel  
assembly, power supply PWAs with sheet metal, and  
appropriate input module. This unit is optioned,  
tested and ready to install in your system. Spare  
power input modules (PIM) can be ordered  
separately.

**ac Power Supply**

**3300/12-AXX-BXX-CXX**

**Option Descriptions**

**A:** Input Voltage Option

- 0 1** 95-125 Vac 50/60 Hz
- 0 2** 190-250 Vac 50/60 Hz

**Note:** Input Voltage Option is field-changeable. Ordering  
information only determines how the unit is shipped from the  
factory.

**B:** Power Input Module Option

- 2 0** Standard
- 2 2** Internal Safety Barriers
- 2 3** Spare supply only-No PIM

**C:** Agency Approval Option

- 0 0** Not Required
- 0 1** CSA/NRTL/C
- 0 2** ATEX self certification

**Note:** ATEX approval requires the monitor rack be installed in a  
weatherproof housing.

**Spare Parts:**

**161956-AXX-BXX-CXX**

Power Input Module (PIM)  
Assembly-dash options same as  
above

**01701500**

250V, 1.5 A Fuse(A=01,C=00,01)

**01703118**

250V, 0.75 A Fuse(A=02,C=00,01)

**01710512**

250V, 2.50 A Fuse(A=01,C=02)

**01720007**

250V, 1.25 A Fuse(A=02,C=02)

**147262-01**

Transformer Assembly

**147262-02**

Transformer Assy with Internal  
Barriers

**Field-programmable Option**

This option is field-programmable via plug-in  
jumpers.

**Bold text** indicates option as shipped from factory.

**Transducer Output Voltage**

**-24 Vdc**

-18 Vdc

**Note:** Contact your nearest sales professional if 3000 Series  
transducers (-18 Vdc power) are to be used in a monitoring rack  
which also uses 3300 and/or 7200 Series transducers (-24 Vdc  
power).

**Accessories**

**128112**

Galvanic Isolator Kit

**02245002**

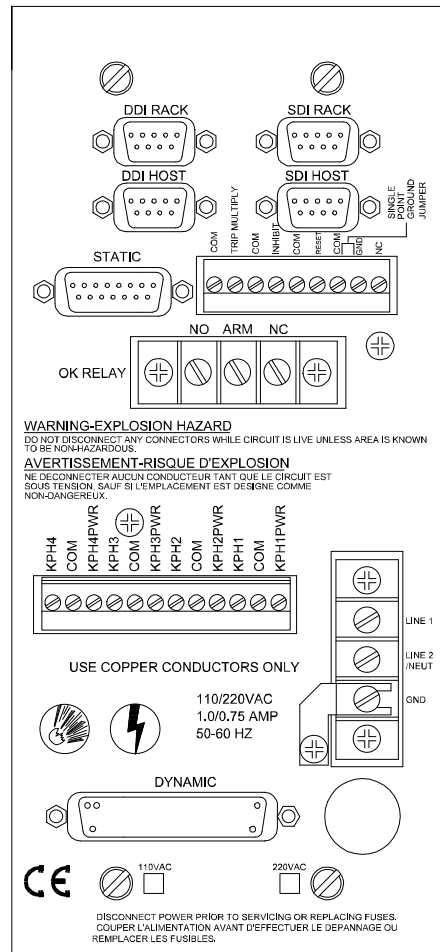
External Barrier

02200214

Surge Protector

## Field wiring diagram

### 3300/12 ac Power Supply



To Primary Power Connection  
(Same configuration on Option B  
Standard and Option B with  
Internal Safety Barriers)

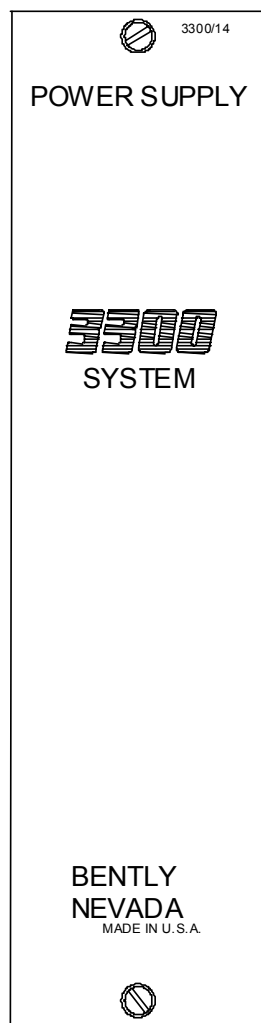
### Primary power connections for 3300/12 ac Power Supply (Standard PIM shown)

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# 3300/14 dc Power Supply

Bently Nevada™ Asset Condition Monitoring



## Description

The 3300 dc Power Supply delivers reliable, regulated power for up to 12 monitors and their associated transducers. A second power supply in the same rack is never required.

The Power Supply is installed in the left-most location (position 1) in a 3300 Rack. Primary voltage operation can be ordered for 20 to 34 Vdc or 90 to 140 Vdc inputs, which are converted for use by the monitors installed in the rack.

The 3300 dc Power Supply has over-voltage and under-voltage protection circuitry to shut down the Power Supply should the input supply voltage fall out of the specified range. It will return to normal operation when the input voltage is within the specified range. In addition, the Power Supply is fuse-protected against reverse polarity power hookup and power inputs of greater than 140% of the maximum rated input voltage.

## Warning

A transducer field wiring failure, monitor failure, or loss of primary power can cause loss of machinery protection. This could result in property damage and/or bodily injury. Therefore, we strongly recommend connection of an external annunciator to the OK relay terminals.



imagination at work

Specifications and Ordering Information  
Part Number 141497-01  
Rev. J (11/08)

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## Specifications

### Inputs

#### Power:

20 to 34 Vdc, 5.5 A max. 90 to 140 Vdc, 1.5 A max.

#### Fuse Rating:

20 to 34 Vdc, 8 A max. 90 to 140 Vdc, 2 A max.

---

### Outputs

#### Transducer Power (internal to rack):

User-programmable for -24, +1.3%, -1.7% Vdc; or -18, +1.6%, -2.2 % Vdc. Transducer voltages are overload protected, per channel, on the individual monitor circuit boards.

---

### OK Relay

#### Location:

Behind the Power Supply, in the Power Input Module.

#### Type:

Single-pole, double-throw (SPDT).

#### Environmental Sealing:

Hermetically-sealed.

#### Contact Ratings (resistive load):

5 A at 28 Vdc;  
5 A at 120 Vac, 50/60 Hz;  
3 A at 220 Vac, 50/60 Hz.

#### Ratings for systems requiring agency approval:

5 A at 28 Vdc;  
5 A at 120 Vac, 50/60 Hz,  
(30 Vac for ATEX).

#### Contact Life:

10,000 cycles minimum at rated load.

#### Operation:

normally energized

---

### Environmental Limits

#### Operating Temperature:

0°C to +65°C (+32°F to +150°F).

#### Storage Temperature:

-40°C to +85°C (-40°F to +185°F).

#### Relative Humidity:

To 95%, noncondensing.

---

### CE Mark Directives

#### EMC Directive

Certificate of Conformity: 158710

#### Low Voltage Directive

Certificate of Conformity: 135300

---

### Hazardous Area Approvals

#### CSA/NRTL/C

Class I, Div 2  
Groups A, B, C, D  
T4 @ Ta = +65 °C

#### Certification Number

150368 – 1002151 (LR 26744)

#### ATEX

 II 3 G

EEx nC[L] IIC

T4 @ Ta = -20°C to +60°C

When installed per document number 132577-01.

Certification  
Number

BN26744C-55A

---

## Physical

### Space

#### Requirements:

One rack position. Installs only in position one (left-most position, next to the System Monitor).

#### Weight:

2 kg (4.4 lbs.).

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## Ordering Information

For spares, order the complete catalog number as described below. This includes a front panel assembly, power supply PWAs with sheet metal, and appropriate input module. This unit is optioned, tested and ready to install in your system. Spare power input modules (PIM) can be ordered separately.

---

### dc Power Supply

3300/14-AXX-BXX-CXX

#### Option Descriptions

##### A: Input Voltage Option

**0 1** +26 Vdc(+20 Vdc to +34 Vdc)  
**0 2** +120 Vdc(+90 Vdc to +140 Vdc)

##### B: Power Input Module Option

**2 0** Standard  
**2 2** Internal Safety Barriers  
**2 3** Spare supply only-No PIM

##### C: Agency Approval Option

**0 0** Not required  
**0 1** CSA/NRTL/C  
**0 2** ATEX self certification

**Note:** ATEX approval requires the monitor rack be installed in a weatherproof housing.

---

### Spare Parts:

**161957-AXX-  
BXX-CXX**

Power Input Module (PIM)  
Assembly-dash options same as above

**01720029**

250V, 1.50 A Fuse(A=01,C=00,01)

**01702000**

250V, 0.75 A Fuse(A=02,C=00,01)

**01710510**

250V, 2.50 A Fuse(A=01,C=02)

**01710511**

250V, 1.25 A Fuse(A=02,C=02)

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## Field-programmable Options

These options are field-programmable via plug-in jumpers. **Bold text** indicates options as shipped from the factory.

### Transducer

#### Output Voltage

**-24 Vdc**

-18 Vdc

**Note:** Contact your sales professional if 3000 Series transducers are to be used in a monitoring rack, which also uses 3300 and/or 7200 Series transducers.

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## Accessories

**128112**

Galvanic Isolator Kit

**02245002**

External Barrier

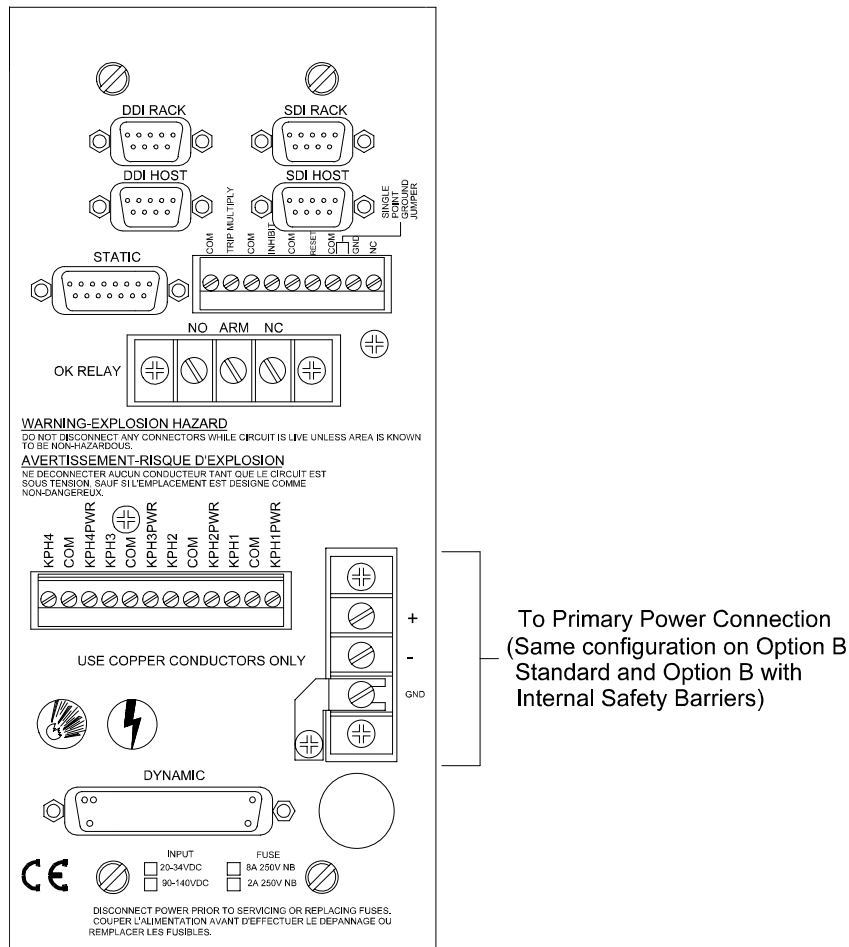
**02200214**

Surge Protector



## Field wiring diagram

### 3300/14 dc Power Supply



**Primary power connections for 3300/14 dc Power Supply  
(Standard PIM shown)**

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