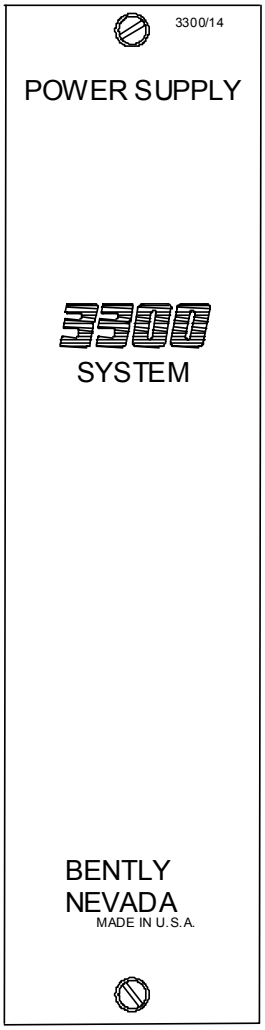
3300/14 dc Power Supply

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.

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.).

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)

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.

Accessories

128112

Galvanic Isolator Kit

02245002

External Barrier

02200214

Surge Protector