

3500/10E Power Supply

Bently Nevada* Asset Condition Monitoring



Description

The 3500 Encore Power Supplies are half height modules and must be installed in the specially designed slots on the left side of the 3500 ENCORE System rack.

Dual redundant or single 3500/10E Power Supplies are offered in the 3500 ENCORE System rack.

The 3500 ENCORE Power Supply accepts a wide range of input voltages and converts them to voltages acceptable for use by other 3500 Encore modules:

- Universal AC Input

Note: The /10E power supply is only for use in the 3500 ENCORE system (not for use in the 3500 ENCORE rack upgrade).



Specifications

Inputs

Voltage Options:

Voltage ac

Input
Voltage

85 to 264 Vac

Input
Frequency

47 to 63 Hz

Full Rack Current Draw:

AC

3.2 A rms (maximum).

Outputs

Front Panel LEDs

Supply OK LED:

Indicates when the power supply is operating properly.

Environmental Limits

Operating Temperature:

For an 8 or a 10 Position rack:
-20 °C to +65°C (-4 °F to +150°F).

For a 12 Position rack:
-20 °C to +60°C (-4 °F to +140°F).

For a 14 Position rack:
-20 °C to +55°C (-4 °F to +131°F).

Storage Temperature:

-30 °C to +85 °C (-22 °F to +185 °F).

Humidity:

95%, non-condensing.

The power supply will support the system monitor and up to 12 additional monitors at +65°C (requires a minimum of 40 linear feet per minute of air moving across the footprint of the system directly below the Power Supply and TDI main card).

Altitude:

Up to 2000 m (6561.68 ft.)

Mains Supply:

Mains supply fluctuations up to +/-10% of the nominal voltage.

Overvoltage:

Overvoltage Category II.

Pollution:

Pollution Degree 2.

Compliance and Certifications

EMC

European Community Directives:
EMC Directive 2004/108/EC

Standards:

EN 61326-1:2006
Emissions and Immunity
EN 61000-6-2 (2005) +C1
EN 61000-3-2 (2006) +A1, +A2
EN 61000-3-3 (2008)
EN 61000-6-4 (2007) +A1

Electrical Safety

Standards:

EN 61010-1:2010

European Community Directive:
2006/95/EC Low Voltage

For further certification and approvals information please visit the following website:

www.ge-mcs.com/bently

Hazardous Area Approvals

North American:

Approval Option (01)

Class 1, Div 2

Groups A, B, C, D

T4 @ Ta = -30 °C to +65 °C
(-4 °F to +150 °F)

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Physical

Power Supply Module

**Dimensions (Height x
Width x Depth):**

83.82 mm x 40.39 mm x 236.73
mm (3.30 in x 1.59 in x 9.32 in).

Weight:

1.81 kg (4 lb.).

Power Input Module

**Dimensions (Height x
Width x Depth):**

74.17 mm x 40.39 mm x 106.93
mm (2.92 in x 1.59 in x 4.21 in).

Weight:

1.45 kg (3.20 lb.).

Rack Space Requirements

Power Supply Module:

1 half-height front slot, located on
the left side of the rack.

Ordering Information

3500/10E-AXX-BXX-CXX

A: Power Supply Top

01 110/220 VAC

B: Power Supply Bottom

00 None

01 110/220 VAC

C: Agency Approval Option

00 None

01 CSA/NRTL/C

Spares

100M4133

AC Power Supply Module

100M4135

AC Power Input Module

100M3339-01

Power Supply Operations and
Maintenance Manual

100M5903

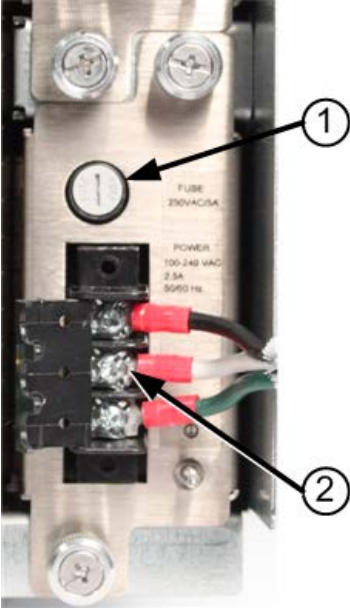
Fuse 5A 250 VAC

Graphs and Figures



Power Supplies OK LED

Figure 1: Front View of the 10E Power Supply



- 1. Fuse
- 2. Terminations

Figure 2: Power Input Module (PIM)

Warning Markings

The warning markings that appear on the 3500/10E Power Supply are defined in this section.



Caution, possibility of electric shock



Caution, documentation must be consulted



Caution, hot surface



Protective conductor terminal

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