

## Specifications and Ordering Information

# 3500/15 Power Supply



## Description

The 3500 Power Supplies are half-height modules and must be installed in the specially designed slots on the left side of the rack. The 3500 rack can contain one or two power supplies (any combination of ac and/or dc) and either supply can power a full rack. If installed, the second supply acts as a backup for the primary supply. When two power supplies are installed in a rack, the supply in the lower slot acts as the primary supply and the supply in the upper slot acts as the backup supply. Removing or inserting either power supply module will not disrupt operation of the rack as long as a second power supply is installed.

The 3500 Power Supplies accept a wide range of input voltages and converts them to voltages acceptable for use by other 3500 modules. Three Power Supply versions are available with the 3500 Series Machinery Protection System as follows:

1. ac Power Supply
2. High Voltage dc Power Supply
3. Low Voltage dc Power Supply

## Specifications

### Inputs

#### Voltage Options:

**175 to 264 Vac rms:** (247 to 373 Vac, pk), 47 to 63 Hz. This option uses the ac Power Supply and the High Voltage ac (220 V nominal) Power Input Module (PIM).

Installations using AC Power Input Modules (PIM) prior to rev R and/or AC Power Supply Module prior to rev M require voltage input:: 175 to 250 Vac rms

**85 to 132 Vac rms:** (120 to 188 Vac, pk), 47 to 63 Hz. This option uses the ac Power Supply and the Low Voltage ac (110 V nominal) Power Input Module (PIM).

Installations using AC Power Input Modules (PIM) prior to rev R and/or AC Power Supply Module prior to rev M require voltage input:: 85 to 125 Vac rms

**88 to 140 Vdc:** This option uses the High Voltage dc Power Supply and the High Voltage dc Power Input Module (PIM).

**20 to 30 Vdc:** This option uses the Low Voltage dc Power Supply and the Low Voltage dc Power Supply Input Module (PIM).

**Out of Range Protection:** For all power supply versions, an under-voltage will not harm either the supply or the PIM. However, an over-voltage will cause the fuse to open on the PIM.

*Full Rack Current Draw:*

<i>175 to 254Vac Input:</i>	2.3 A rms (maximum).
<i>85 to 132 Vac Input:</i>	4.5 A rms (maximum).
<i>88 to 140 Vdc Input:</i>	2.5 A (maximum).
<i>20 to 30 Vdc Input:</i>	10.0 A (maximum).

**Outputs**

*Front Panel LEDs*

<i>Supply OK LED:</i>	Indicates when the power supply is operating properly.
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**Environmental Limits**

<i>Operating Temperature:</i>	-30°C to +65°C (-22°F to +150°F).
<i>Storage Temperature:</i>	-40°C to +85°C (-40°F to +185°F).
<i>Humidity:</i>	95%, non-condensing.

**CE Mark Directives**

*EMC Directives:*

<i>EN50081-2:</i>	Radiated Emissions EN 55011, Class A Conducted Emissions EN 55011, Class A
<i>EN50082-2:</i>	Electrostatic Discharge EN 61000-4-2, Criteria B Radiated Susceptibility ENV 50140, Criteria A Conducted Susceptibility ENV 50141, Criteria A Electrical Fast Transient EN 61000-4-4, Criteria B Surge Capability EN 61000-4-5, Criteria B Magnetic Field EN 61000-4-8, Criteria A Power Supply Dip EN 61000-4-11, Criteria B Radio Telephone ENV 50204, Criteria B

*Low Voltage Directives:*

<i>EN 61010-1</i>	Safety Requirements
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**Hazardous Area Approvals**

<i>CSA/NRTL/C:</i>	Class I, Division 2, Groups A through D.
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**Physical**

*Power Supply Module*

<i>Dimensions (Height x Width x Depth):</i>	120.7 mm x 50.8 mm x 251.5 mm (4.75 in x 2.0 in x 9.9 in).
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<i>Weight:</i>	1.39 kg (3.06 lbs.).
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*Power Input Modules*

<i>Dimensions (Height x Width x Depth):</i>	120.7 mm x 25.4 mm x 114.3 mm (4.75 in x 1.0 in x 4.5 in).
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<i>Weight:</i>	0.34 kg (0.75 lbs.).
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**Rack Space Requirements**

<i>Power Supply Module:</i>	Two special half-height slots are located on the left side of the rack. Each slot accommodates one power supply. Both slots can be filled with a power supply at the same time allowing for redundant power supplies.
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<i>Power Input Module:</i>	Special half-height module located directly behind the associated power supply.
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**Miscellaneous**

<i>Minimum Loading:</i>	No minimum rack load is required.
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## Ordering Information

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### 3500/15-AXX-BXX-CXX

#### Option Descriptions

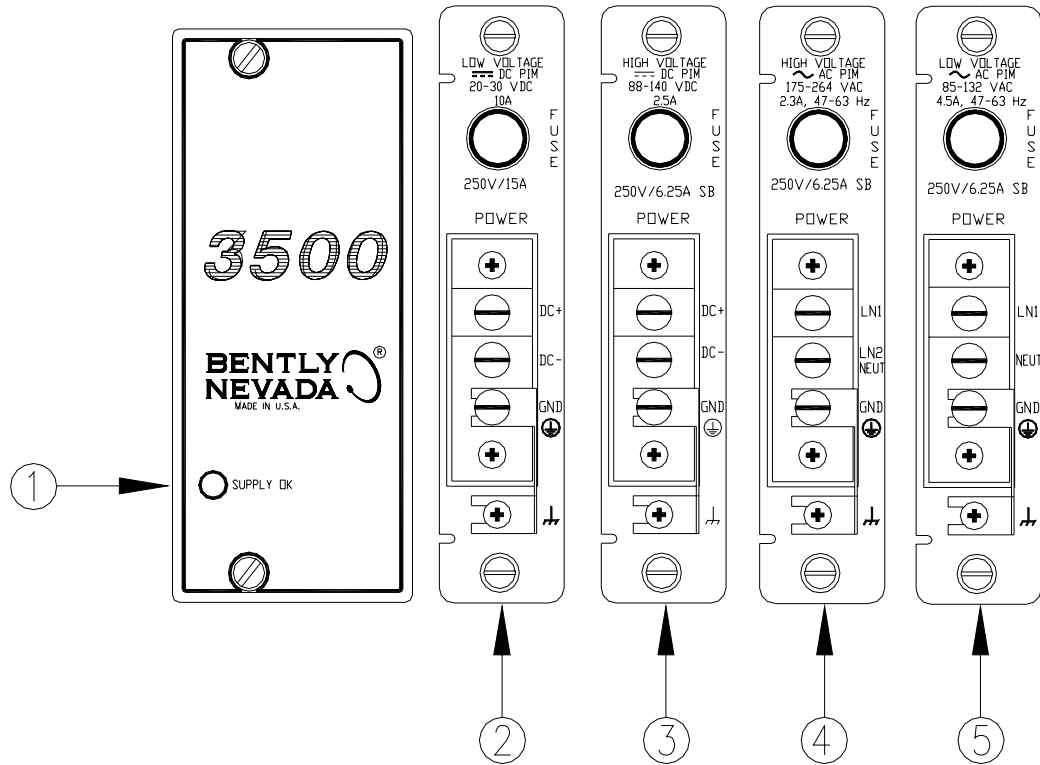
<i>A: Power Supply Type (Top Slot)</i>	<b>0 1</b>	Low Voltage ac (85 to 132 Vac rms)
	<b>0 2</b>	High Voltage ac (175 to 264 Vac rms)
	<b>0 3</b>	High Voltage dc (88 to 140 Vdc)
	<b>0 4</b>	Low Voltage dc (20 to 30 Vdc)
<i>B: Power Supply Type (Bottom Slot)</i>	<b>0 0</b>	No supply (use when only one supply is required)
	<b>0 1</b>	Low Voltage ac (85 to 132 Vac rms)
	<b>0 2</b>	High Voltage ac (175 to 264 Vac rms)
	<b>0 3</b>	High Voltage dc (88 to 140 Vdc)
<i>C: Agency Approval Option</i>	<b>0 0</b>	None
	<b>0 1</b>	CSA/NRTL/C

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## Spares

127610-01	ac Power Supply Module
125840-01	High Voltage ac Power Input Module (PIM)
125840-02	Low Voltage ac Power Input Module (PIM)
129486-01	High Voltage dc Power Supply Module
129478-01	High Voltage dc Power Input Module (PIM)
133292-01	Low Voltage dc Power Supply Module
133300-01	Low Voltage dc Power Input Module (PIM)
01720025	Replacement Fuse (for both ac PIMs and High Voltage dc PIMs)
01720045	Replacement Fuse (Low Voltage dc PIM)
129767-01	Power Supply Operations and Maintenance Manual

## Figures and Tables



- 1) Supply OK LED
- 2) Low Voltage DC Power Input Module
- 3) High Voltage DC Power Input Module
- 4) Low Voltage AC Power Input Module
- 5) High Voltage AC Power Input Module

### Front and rear view of Power Supply and Input Modules

All data is subject to change without notice

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