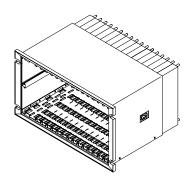
3500/05 Rack



Description

The 3500 System rack is designed to hold all monitor modules and rack power supplies. It provides backplane communications for the various 3500 modules to communicate with one another and for the power supplies to distribute power to each module as required.

3500 Racks are available in two sizes:

- Full-size Rack 19-inch EIA rack has 14 available module slots
- Mini-Rack 12-inch rack has 7 available module slots

3500 racks are available in three formats:

- 1. **Panel mount –** used for rectangular cut-outs in panels, secured using clamps supplied with the rack. Wiring connections and I/O modules are accessed from the rear of the rack.
- 2. Rack mount used for mounting the 3500 rack on 19-inch EIA rails. Wiring connections and I/O modules are accessed from the rear of the rack.
- Bulkhead mount used for affixing the rack against a wall or panel when rear access is not available. Wiring connections and I/O modules are accessed from the front of the rack. This format is not available in the 3500/05 Mini-rack.

The Power Supplies and Rack Interface Module must be installed in the far left positions. The remaining 14 rack positions (remaining 7 positions for the Mini-rack) are available for any combination of modules. If internal barriers are to be installed in the 3500 rack, consult Bently Nevada part number 141495-01, Specifications and Ordering Information for 3500 Internal Barriers.







Specifications

Hazardous Area Approvals

CSA/C/US

Refer to the data sheet of applicable monitor being inserted into the rack.

CE Mark Directives

BN 136669

Bently Nevada Low Voltage Directive

BN 134036

Bently Nevada EMC Directive

EN61000-6-4

Radiated Emissions
EN 55011, Class A
Conducted Emissions

EN 55011, Class A

EN61000-6-2

Electrostatic Discharge

EN 61000-4-2, Criteria B

Radiated RFI

EN61000-4-3, Criteria A

Conducted Susceptibility

EN61000-4-3, 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 Frequency

EN61000-4-6, Criteria A

Ordering Considerations

- Racks with Internal Barriers installed require that a 3500/04-01 Internal Barrier Earthing Module is installed to provide the connection of the IS Earth to the 3500/05 rack. This module requires a dedicated rack position.
- The 3500/93 System Display A01 System Face Mount option is incompatible with the 3500/05 Mini-rack.
- The 3500/05 Mini-rack is not available in the Bulkhead mount option.

- The 3500/06 Weatherproof housing is not compatible with the 3500/05 Bulkhead Mount option.
- When using a 3500 Mini-rack in an EIA rack, a 144863-01 19-inch EIA Adapter Panel is required.
- The 3500 Mini-rack requires 3500/01 Software, version 2.70 or later.

Ordering Information Rack Ordering Information

3500/05-AXX-BXX-CXX-DXX-EXX

A: Rack Size

0 1 19-inch Rack (14 Module Slots)

0 2 12-inch Mini-Rack (7 Module Slots)

B: Mounting Options

0 1 Panel Mount Option, Full-Size

Rack

0 2 Rack Mount Option, Full-Size Rack (mounts to19-inch EIA

Rack)

0 3 Bulkhead Mount Option (Not available in Mini-Rack)

0 4 Panel Mount Option, Mini-Rack

0 5 Rack Mount Option, Mini-Rack

C: Agency Approval Option

00 None

01 CSA - C - US

D: Reserved

00 None

E: European Compliance Option

00 None

01 CE

Spares

Part Number

Description

Half-height Module

Adapter

Order the following

125388-01

Half-height Module Internal Chassis

(Qty 1)

125565-01

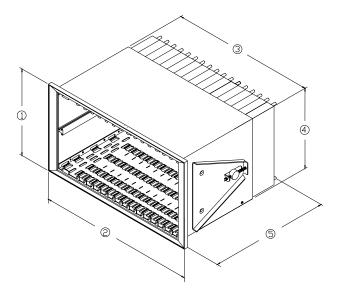
Half-height Module Card Guide (Qty 1)

04300111

Specifications and Ordering Information

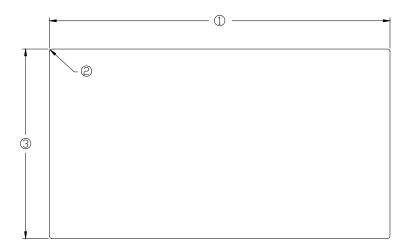
	Screws for Half-height Module Internal Chassis (Qty 3)		Screw for I/O Module Cover (Qty 2)
Power Supply	internal Orlassis (Qty 3)	Half-height Blank Monitor Covor Kit	
Blank Cover Kit	Order the fallowing		Order the Following
131150-01	Order the following	131151-01	Half-height Blank Front Panel Cover
131130-01	Power Supply Blank Front Panel (Qty		(Qty 1)
40000 04	1)	Misc Components	
128085-01	Power Supply Input Connector Cover	00517016	
	(Qty 1)	00017070	TMR/SIM jumper (installed on the 3500
04310251	Screw for Power Supply Input Cover		backplane)
	(Qty 2)	144863-01	Adapter Panel, Mini-rack, 19-inch
Full-height Blank		129766-01	·
Monitor Cover Kit	Order as 130768-01 which includes		Rack Installation and Maintenance Manual
130944-01	Full-height Monitor Blank Front Panel	130432-01	Field Wiring Diagrams
	(Qty 1)		Tield Willing Diagrams
128031-01	I/O Module Cover (Qty 1)		
04310251	1/O Module Cover (Qty 1)		

Figures and Tables



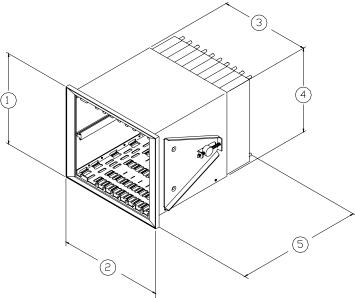
- 1. 10.470 inches (265.94 mm).
- 2. 19.000 inches (482.60 mm).
- 3. 17.400 inches (441.96 mm).
- 4. 9.700 inches (246.38 mm).
- 5. 13.750 inches (349.25 mm), 16.650 inches (422.91 mm) if used with internal barriers

Fig. 1. 3500 Full-Size rack mounting dimensions for the Rack and Panel Mount Configuration



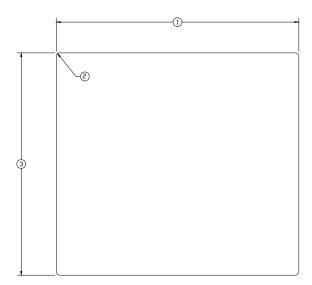
- 1. 7.80 +/- 0.06 inches (452.1 +/- 1.5 mm).
- 2. 0.125 inches (3.2 mm) radius, maximum.
- 3. 9.90 +/- 0.60 inches (251.5 +/- 1.5 mm).

Fig. 2. 3500 Full-Size Rack Recommended Panel Cutout



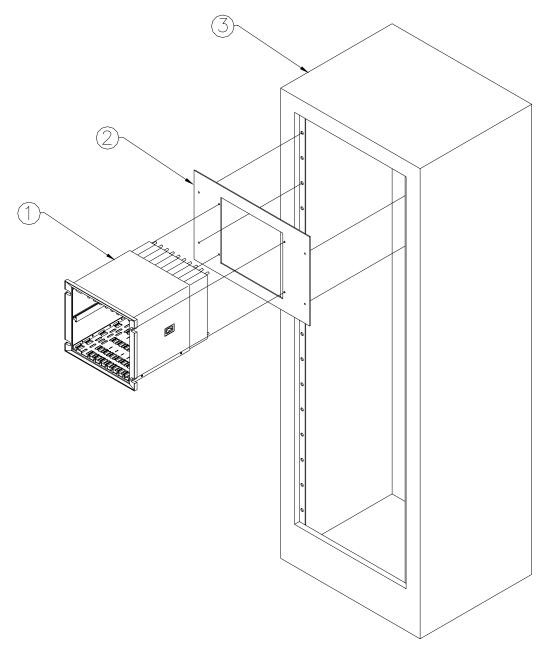
- 10.470 inches (265.94 mm).
- 12.000 inches (304.80 mm).
- 10.400 inches (264.16 mm).
- 9.700 inches (246.38 mm). 13.750 inches (349.25 mm), 16.650 inches (422.91 mm) if used with internal barriers

3500 Mini-rack mounting dimensions for the Panel Mount Configuration Fig. 3.



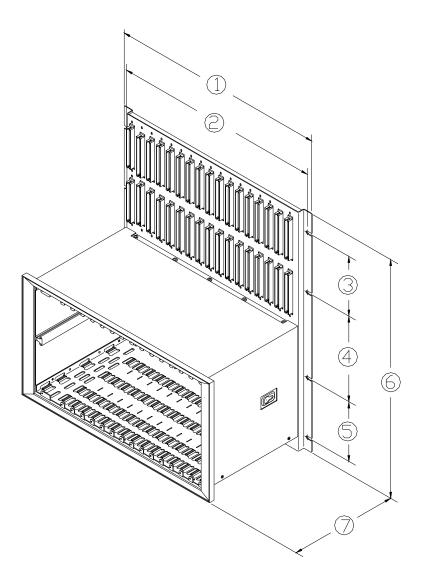
- 10.80 + -0.06 inches (274.3 + -1.5 mm). 0.125 inches (3.2 mm) radius, maximum.
- 9.90 +/- 0.60 inches (251.5 +/- 1.5 mm).

3500 Mini-rack Recommended Panel Cutout Fig. 4.



- 3500 Mini-rack
 Adapter Panel
 Standard 19-inch EIA rack

3500 Mini-rack and Adapter Panel mounting to a 19-inch EIA Rack Fig. 5.



- 19.000 inches (482.60 mm). 18.094 inches (459.59 mm). 5.250 inches (133.35 mm). 7.500 inches (190.50 mm). 5.250 inches (133.35 mm). 20.970 inches (532.64 mm). 10.500 inches (266.70 mm).

Dimensions of a Bulkhead Mount 3500 rack Fig. 6.

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