Bently Nevada 129478-01

High Voltage DC Power Input Module



Bently Nevada 129478-01 is the legacy high-voltage DC Power Input Module for the 3500/15 rack power arrangement. It receives the incoming DC supply at the rear of the rack and works with the associated 129486-01 power-supply module, which converts that input into voltages used by the monitoring modules. The legacy high-voltage DC option is specified for 88–140 VDC input. Selecting this PIM preserves the input-side role and generation of the existing power assembly; later DC supply and PIM designs are not interchangeable with the legacy pair.

Technical Specifications

Product Identity	
Part number	129478-01
Component	Legacy high-voltage DC Power Input Module
PIM dimensions (H x W x D)	120.7 x 25.4 x 114.3 mm
Functional Configuration	
Family	3500/15
PIM rack position	Special half-height module behind the associated supply
Generation requirement	Legacy and newer DC supply/PIM generations are not compatible
Performance & Power	
Applicable legacy DC input	88 to 140 Vdc
Environment	
Operating temperature	-30 to +65 degrees C
Storage temperature	-40 to +85 degrees C
Humidity	95%, non-condensing

Selected original manufacturer material follows on pages 3–4.

Compatibility & Selection Guide

System compatibility. The 3500/15 architecture supports a primary supply and an optional backup in a 3500 rack. For 129478-01, the essential compatibility check is the legacy DC supply/PIM generation: the current manufacturer datasheet explicitly states that the newer high- and low-voltage DC supplies and PIMs are not compatible with legacy DC components. A common voltage range does not establish interchangeability.

Wiring & Installation Reference

Legacy high-voltage DC input

1. Check the full part number Match 129478-01 and verify the associated legacy high-voltage DC supply.

2. Check the actual input Confirm that the source is within the applicable 88-140 Vdc range before proceeding with the system service procedure.

Rear input assembly

1. Verify generation compatibility Keep legacy supply and input-module generation requirements intact.

2. Use the correct service reference The legacy datasheet identifies power-supply operations and maintenance manual 129767-01; terminal-level procedures are not reproduced in this datasheet extract.

Installation precautions

The newer high- and low-voltage DC power supplies and PIMs are not compatible with the legacy DC supplies and PIMs. Confirm the generation of both parts.

The manufacturer permits power-supply removal without interrupting the rack only when the other supply is installed. This statement is not permission to remove the PIM or connect live input wiring.

View legacy power layout (PDF) — page 4 · View mounting reference (PDF) — page 4

LCIE 04 ATEX 6161X

Physical

Power Supply Module

Dimensions (Height x Width x Depth):

120.7 mm x 50.8 mm x 251.5 mm (4.75 in x 2.0 in x 9.9 in).

Weight:

1.39 kg (3.06 lb.).

Power Input Modules

Dimensions (Height x Width x Depth):

120.7 mm x 25.4 mm x 114.3 mm (4.75 in x 1.0 in x 4.5 in).

Weight:

0.34 kg (0.75 lb.).

Rack Space Requirements

Power Supply Module:

Two special half-height slots are located on the left side of the rack. Each slot accommodates one power supply. Both slots can hold a power supply at the same time, allowing for redundant power supplies.

Power Input Module:

Special half-height module located directly behind the associated power supply.

Miscellaneous

Minimum Loading:

No minimum rack load is required.

Ordering Information

3500/15-AXX-BXX-CXX

A: Power Supply Type (Top Slot)

- **0 1** Low Voltage ac (85 to 132 Vac rms)
- **0 2** High Voltage ac (175 to 264 Vac rms)
- **0 3** High Voltage dc (88 to 140 Vdc)
- **0 4** Low Voltage dc (20 to 30 Vdc)

B: Power Supply Type (Bottom Slot)

- **0 0** No supply (use when only one supply is required)
- **0 1** Low Voltage ac (85 to 132 Vac rms)
- **0 2** High Voltage ac (175 to 264 Vac rms)
- **0 3** High Voltage dc (88 to 140 Vdc)
- **0 4** Low Voltage dc (20 to 30 Vdc)

C: Agency Approval Option

- **0 0** None
- **0 1** CSA/NRTL/C
- **0 2** ATEX/CSA (Class 1, Zone 2)

Note: Agency Approval Option C 02 is only available if Power Supply Type (Top Slot) Option is A 01 or A 02 and if Power Supply Type (Bottom Slot) Option is B 00, B 01, or B 02.

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

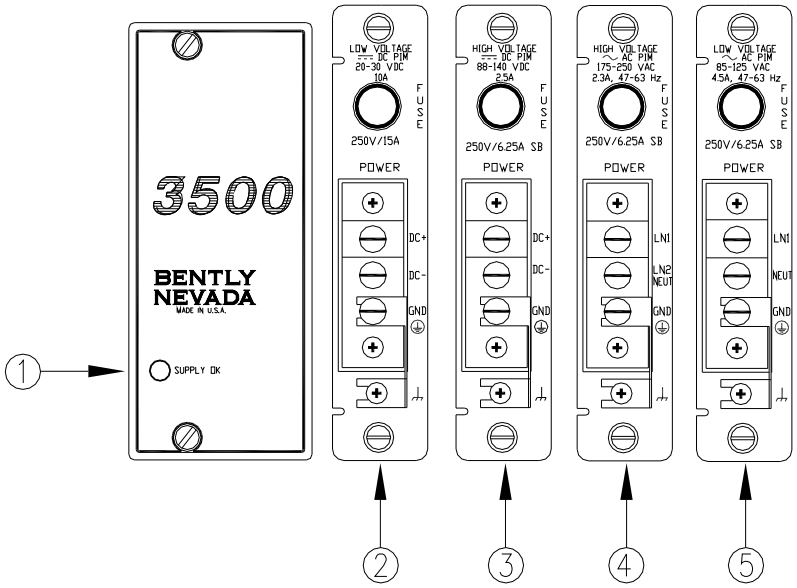
High Voltage dc Power Input Module (PIM)

133292-01

Low Voltage dc Power Supply Module

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

Figures and Tables



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

Front and rear view of Power Supply and Input Modules

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