Bently Nevada 129486-01

High Voltage DC Power Supply Module



Bently Nevada 129486-01 is the legacy high-voltage DC power-supply module for a 3500 machinery-monitoring rack. Working with the matching 129478-01 Power Input Module, it converts the incoming DC power into the internal voltages required by the other 3500 modules. A suitable 3500 supply can power the full rack, and a two-supply arrangement provides a primary and backup source. The 129486-01 is the front power-conversion component of the legacy 88–140 VDC option, so its generation and matching PIM must be distinguished from later high-voltage DC supply designs.

Technical Specifications

Product Identity	
Part number	129486-01
Component	Legacy high-voltage DC power supply module
Supply dimensions (H x W x D)	120.7 x 50.8 x 251.5 mm
Functional Configuration	
Family	3500/15
Applicable legacy input	88 to 140 Vdc
Rack arrangement	Primary supply in lower slot; optional backup in upper slot
Performance & Power	
Full-rack current draw	2.5 A maximum, high-voltage DC option
Supply indicator	Supply OK LED
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. A 3500 rack may use one or two power supplies; with two fitted, the lower supply is primary and the upper is backup. The current manufacturer document classifies 129486-01 as a legacy component and warns that newer DC supplies and PIMs are not compatible with legacy versions. Preserve the correct supply/PIM generation and the existing redundancy arrangement when selecting a spare.

Wiring & Installation Reference

DC supply and PIM matching

1. Identify the front supply Confirm 129486-01 rather than the rear PIM part number.

2. Verify the legacy input assembly Check the paired legacy high-voltage DC PIM and do not mix newer-generation DC hardware.

Primary and backup positions

1. Check the redundancy arrangement Determine whether a second supply is actually present before planning service.

2. Use the specified space Allow for the power-supply envelope of 120.7 x 50.8 x 251.5 mm; the rear PIM has different dimensions.

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 installed legacy generation.

A power supply can be removed without interrupting rack operation only when the other supply is installed. Do not extend that condition to PIM removal or 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

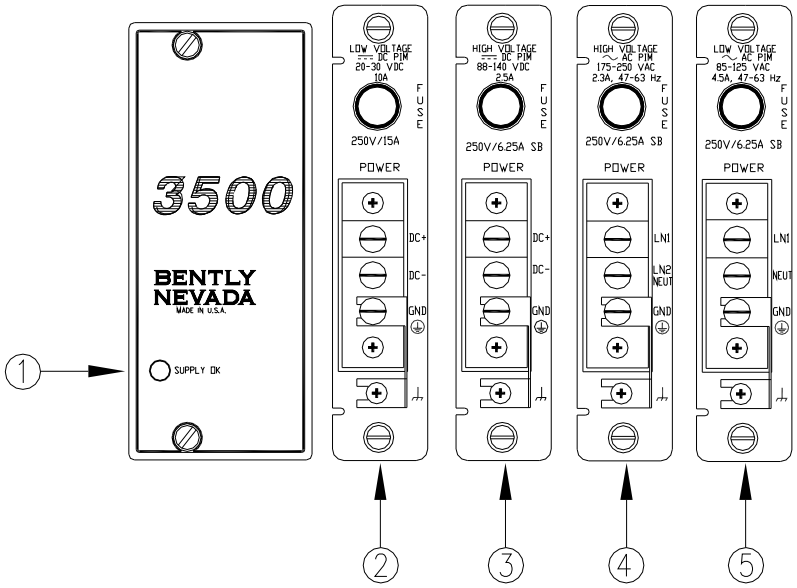
High Voltage dc Power Input Module (PIM)

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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