Bently Nevada 106M1081-01

Power Input Module

Product photograph, technical reference and selected Bently Nevada document pages.



POWER INPUT MODULE

Bently Nevada 106M1081-01 is the universal AC power input module for the 3500/15 power-supply system. It is a PIM, distinct from the associated universal AC power supply module.

Component: Universal AC Power Input Module (PIM)
Family: 3500/15
Nominal AC input: 110 to 220 Vac

Replacement check
Match the complete part number and the documented system configuration before selecting a replacement.

IDENTIFICATION AND REPLACEMENT

Bently Nevada 106M1081-01 is the universal AC Power Input Module (PIM) listed for the 3500/15 family. It is the input-side component of the universal AC power arrangement, rather than the power-conversion module itself. The manufacturer separately identifies 106M1079-01 as the universal AC power supply module.

The 3500/15 system can support one or two power supplies; with two installed, the lower supply is primary and the upper supply is backup. The universal AC supply and PIM are not compatible with the legacy AC supply or legacy high- and low-voltage AC PIMs. Match 106M1081-01 to the correct power-supply generation when maintaining an existing 3500 rack.

Photo scope: real front photograph from the model-specific archive. Confirm the actual offered unit and included accessories. This EWOLO CONTROL compilation is not the complete Bently Nevada manufacturer manual.

Key specifications

Parameter	Specification
Component	Universal AC Power Input Module (PIM)
Family	3500/15
Nominal AC input	110 to 220 Vac
Non-hazardous input range	85 to 264 Vac rms
Hazardous-area input range	85 to 250 Vac rms, subject to approval requirements
Input frequency	47 to 63 Hz
PIM dimensions (H x W x D)	120.7 x 25.4 x 114.3 mm
Rack position	Special half-height position behind the associated power supply
Operating temperature	-30 to +65 degrees C
Humidity	95%, non-condensing
Legacy AC compatibility	Not compatible with legacy AC supply / high- or low-voltage AC PIM arrangement

Mounting and connection

Check the nominal input, frequency and application-specific voltage limit before selecting the PIM. Universal AC and legacy AC power components are not interchangeable.

The PIM is positioned directly behind its associated supply. The front power supply and rear PIM are separate assemblies.

The Universal AC Power Supply and PIM are not compatible with the Legacy 3500 AC Power Supply, High Voltage AC PIM or Low Voltage AC PIM.

The High Voltage and Low Voltage DC Power Supplies and PIMs are not compatible with the Legacy 3500 High Voltage and Low Voltage DC Power Supplies and PIMs. Source for both generation restrictions: 141530 Rev. P, page 1.

Manufacturer references: 3500/15 AC and DC Power Supplies (141530 Rev. P). Selected original pages follow; the complete manufacturer document remains the governing reference.

Specifications

Inputs

Voltage Options

Universal Voltage AC	
Description	This option uses the universal AC Power Supply and universal AC Power Input Module (PIM).
Input Voltage	110 to 220 Vac nominal Non-hazardous areas: 85 to 264 Vac rms Hazardous areas: 85 to 250 Vac rms 120 to 373 Vac pk The universal AC Power Supply and Power Input Module are not compatible with the legacy High Voltage AC or Low Voltage AC units.
Input Frequency	47 to 63 Hz
High Voltage DC	
Description	This option uses the High Voltage DC Power Supply and the High Voltage DC Power Input Module (PIM).
Input voltage	88 to 140 Vdc
Low Voltage DC	
Description	This option uses the Low Voltage DC Power Supply and the Low Voltage DC Power Supply Input Module (PIM).
Input voltage	20 to 30 Vdc

Current Information

Out of Range Protection	For all power supply options, an under-voltage does not harm the supply or the PIM. An over-voltage causes the fuse to open on the PIM.
Full Rack Current Draw	
Universal voltage AC	2.8 A rms (maximum)
High voltage DC	2.5 A (maximum)
Low voltage DC	11.0 A (maximum)

Outputs

Front Panel LEDs	
Supply OK LED	Indicates when the power supply is operating properly

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 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.

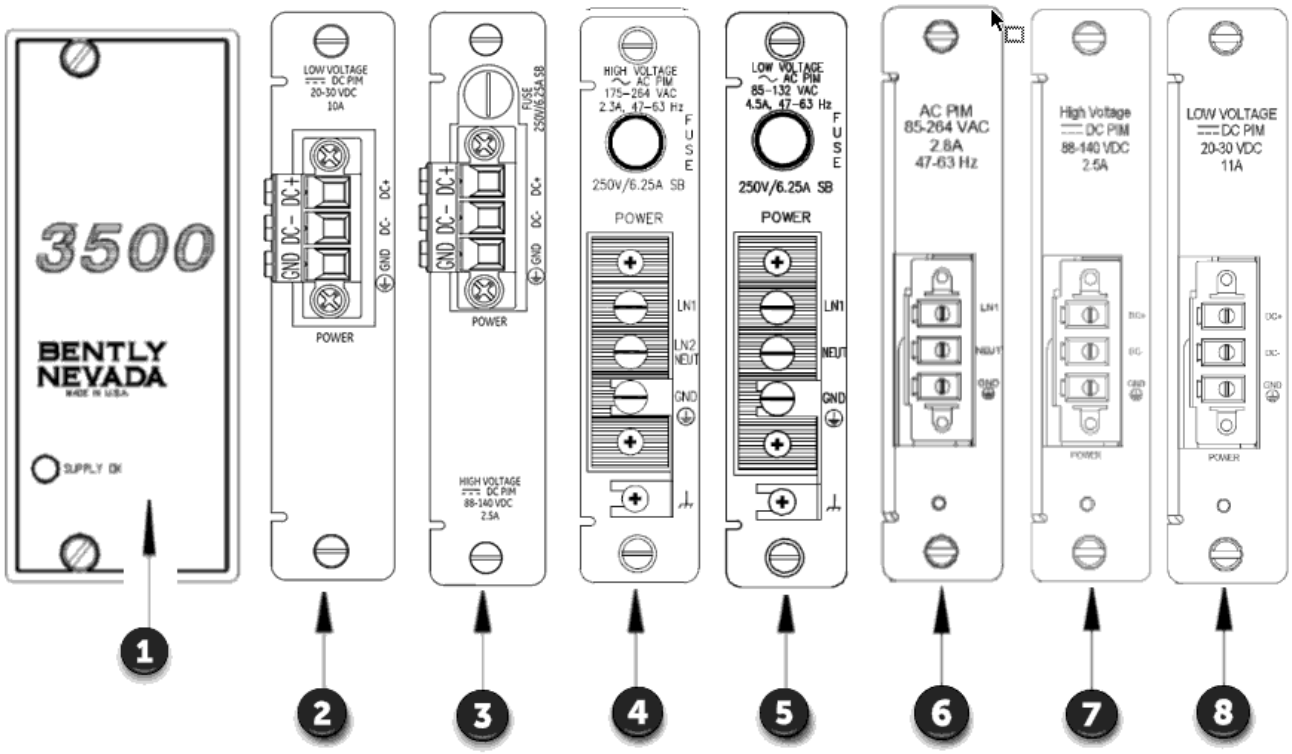
Environmental Limits

Operating temperature	-30 °C to +65 °C -22 °F to +150 °F
Storage temperature	-40 °C to +85 °C -40 °F to +185 °F
Humidity	95%, non-condensing

Spares

Part Number	Description
106M1079-01	Universal AC Power Supply Module
106M1081-01	Universal AC Power Input Module
129486-01	Legacy High Voltage DC Power Supply Module
129478-01	Legacy High Voltage DC Power Input Module
133292-01	Legacy Low Voltage DC Power Supply Module
133300-01	Legacy Low Voltage DC Power Input Module
114M5329-01	High Voltage DC Power Supply
115M7750-01	High Voltage DC PIM
114M5330-01	Low Voltage DC Power Supply
114M5335-01	Low Voltage DC PIM
01720025	Replacement Fuse (for both AC Power Input Module and Legacy High Voltage DC Power Input Module)
01720045	Replacement Fuse (Low Voltage DC Power Input Module and Legacy Low Voltage DC Power Input Module)
120M3877	Replacement Fuse Fast blow rated at 5A/500 Vac Size 6.3 x 32 mm (Universal AC Power Input Module)
131150-01	Power Supply Blank Front Panel (qty 1, includes screws)
128085-01	Power Supply Rear Input Connector Cover (qty 1) Order part 04310251 for screws.
04310251	Screw for Power Supply Input Cover (qty 2)
129767	3500/15 Power Supply User Guide
118M0915-01	Replacement connector for Universal AC Power Input Module
118M0915-02	Replacement connector for DC Power Input Module
129M0198	Replacement fuse (High Voltage DC Power PIM (Power input Module)

Graphs and Figures



1. 3500/15 AC and DC Power Supplies OK LED
2. Legacy Low Voltage DC Power Input Module
3. Legacy High Voltage DC Power Input Module
4. Legacy High Voltage AC Power Input Module
5. Legacy Low Voltage AC Power Input Module
6. Universal AC Voltage Power Input Module
7. High Voltage DC Power Input Module
8. Low Voltage DC Power Input Module

Figure 1: 3500/15 Power Supply and PIMS