

GE Oil and Gas



Product Update Notice

Bently Nevada Asset Condition Monitoring

Update to the 3500/15 AC Power Supply Options

28 July 2016

Product Update Notices provide information about updates, enhancements, improvements, certifications and other changes to new and current Bently Nevada Products and Services. The information in these notices is intended to help you take advantage of the continuous improvements to Bently Nevada products and services and get the best return on your investment in Bently Nevada.

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Product Update Overview

3500 Monitoring System Power Supplies are half-height modules that accept a wide range of input voltages, and convert them to voltages acceptable for use by other 3500 modules. The power supplies consist of a main supply module installed in the front of the rack and a Power Input Module (PIM) installed in the back of the system. The supply architecture is such that different modules are used for AC power mains and DC power mains. Additionally there are different modules applied for Low Voltage versus High Voltage. This results in four unique orderable variants of the 3500/15 Power Supply, the High Voltage AC (HVAC), Low Voltage AC (LVAC), High Voltage DC (HVDC), and the Low Voltage DC (LVDC).

This Product Update Notice is to inform you an updated design for the AC versions of the 3500/15 power supply is now available. The updated design includes changes to ordering options for the AC versions of the 3500/15 power supply, as well as the spare part numbers. These AC power supply ordering options and part number updates have no effect on the DC version options and spare part numbers at this time.


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The legacy ordering options and currently updated options for the 3500/15 when ordered in a 3500 system, are summarized in Table 1 below.

3500/15	- AA	- BB	- CC
01	Low Voltage AC	01	Low Voltage AC
02	High Voltage AC	02	High Voltage AC
03	High Voltage DC	03	High Voltage DC
04	Low Voltage DC	04	Low Voltage DC
05	Universal AC (110/220 VAC)	05	Universal AC (110/220 VAC)
			00 None
			01 CSA/NRTL/C (CLASS 1 DIV 2)
			02 Multi (CSA, ATEX, IECEX)
			R0 Russian Metrology (No Apvls)
			RU Russian Metrology (No Apvls)
			BR Brazil (INMETRO, IECEX, ATEX)
			KR Korea (KTL, IECEX, ATEX)
			CN China (NEPSI, IECEX, ATEX)
			IN India (PESO/CCOE, IECEX, ATEX)
			ZA S. Africa (SABS, IECEX, ATEX)
			TW Taiwan (TS, IECEX, ATEX)

These legacy options will be phased out

This "Universal AC" option has been added and replaces the legacy HVAC & LVAC (-01 & -02) options above

No Change

Table 1: 3500/15 Ordering Options & Structure

In addition to the 3500/15 part number ordering structure updates detailed above, the spare part numbers for the new Universal AC Main Module and PIM are different than the current HVAC and LVAC Main Module and PIM part numbers. The full list of 3500 Main Module and PIM spare part numbers is shown in Table 2.

Part Number	Description	Change Per this FN
129486-01	High DC Power Supply Module	No Change
129478-01	High Voltage DC PIM	No Change
133292-01	Low DC Power Supply Module	No Change
133300-01	Low Voltage DC PIM	No Change
127610-01	AC Power Supply Module	Phase Out
125840-01	High Voltage AC PIM	Phase Out
125840-02	Low Voltage AC PIM	Phase Out
106M1079-01	Universal 85-264 Vac Power Supply	New
106M1081-01	Universal 85-264 Vac PIM	New
113M0744	Universal 85-264 Vac AC PIM Replacement Fuse	New
102M3992	Replacement connector for universal AC PIM and current DC PIMs	New

Table 2: 3500/15 Power Supply Spare Part Numbers

The new Universal AC Main Module and PIM functionally replace the Legacy 3500/15 AC Main Module and both the High and Low Voltage AC PIMs. However, due to technical regulations and standards compliance, the new Universal AC Main Module must be paired only with the new Universal AC PIMs. Neither component can be mixed with legacy AC Main Modules or PIMs. A mixed system in which a new Universal AC Main Module or PIM is paired with a legacy AC Main Module or PIM will not present a safety issue although the system may fail to function properly and does not comply with general electrical safety certification. A mixed legacy/new Main Module-PIM set is unacceptable.



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A legacy AC Main Module-PIM set can reside in the same 3500 system as a new Universal AC Main Module-PIM set so long as the Main Modules and PIMs remain paired correctly. In 3500 applications that call for redundant rack power supplies, a legacy Main Module-PIM set can coexist with a new Universal AC Main Module-PIM set.

Figure 2 illustrates the interchangeability requirements when introducing the new Universal AC main module and PIM into existing 3500 systems. The current timeline for these 3500/15 AC Power Supply updates is shown in Figure 3.

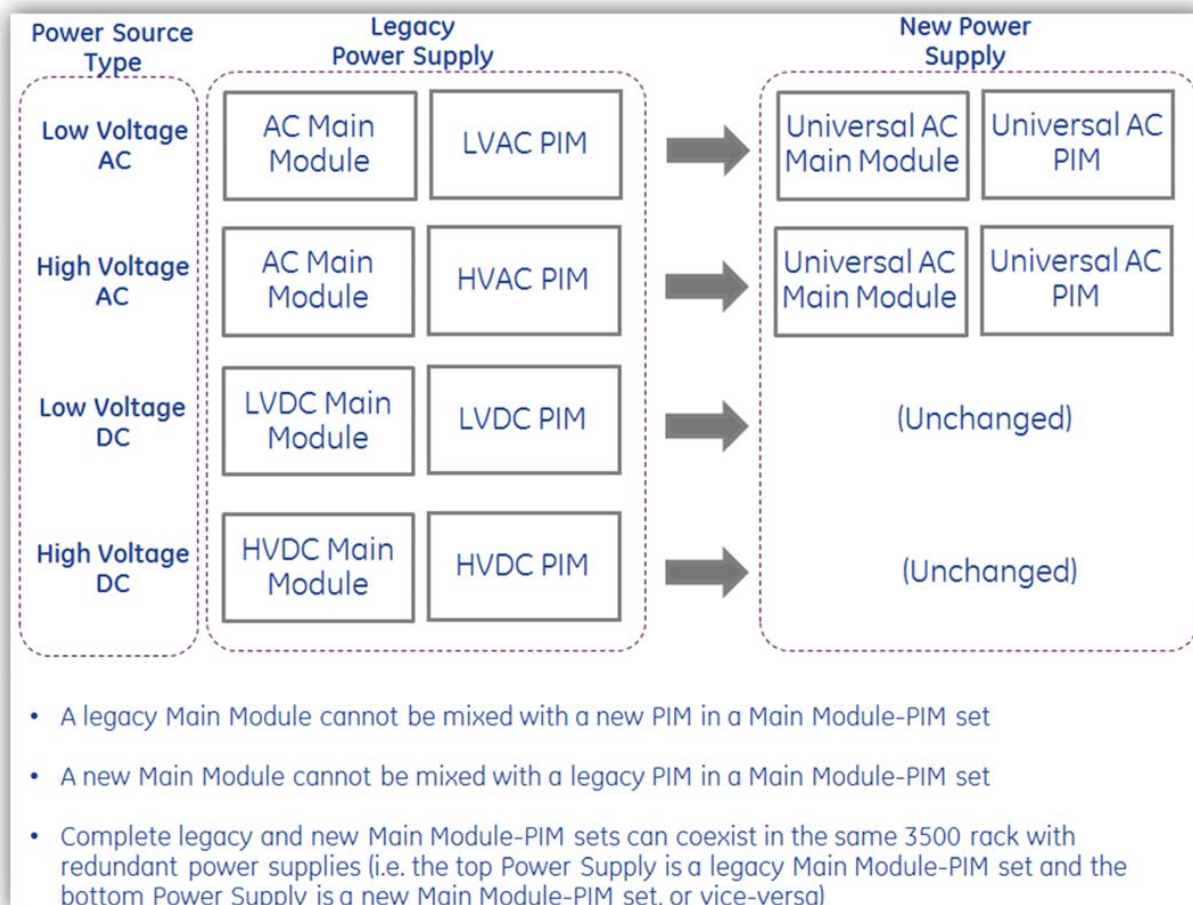


Figure 2: 3500/15 AC PIM and PSM Combination Scenarios



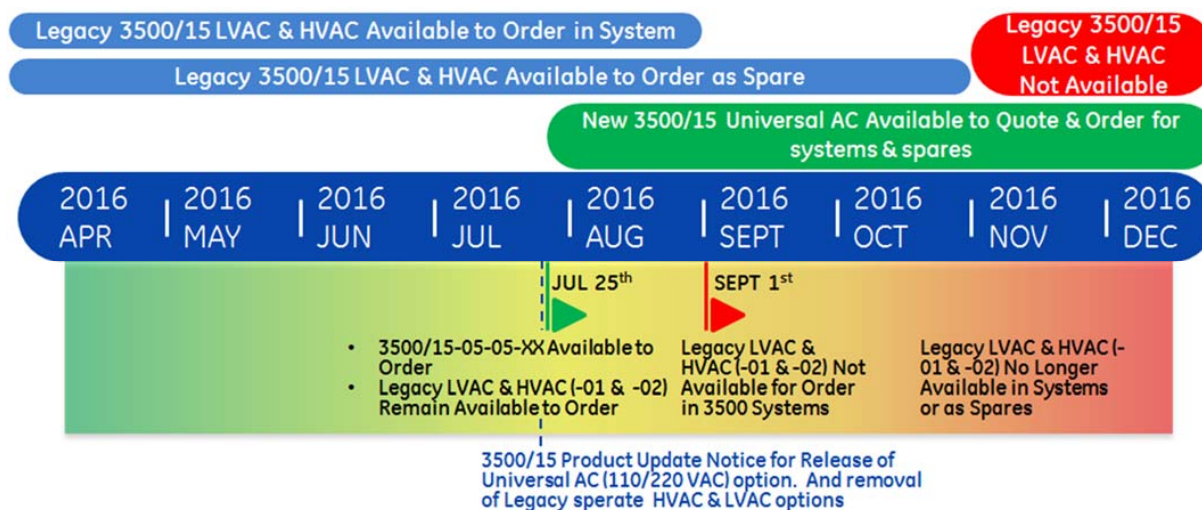


Figure 3: 3500/15 AC Power Supply Updates Timeline

Per the timeline in Figure 3 above the new Universal AC Main Module and PIM are now available to order in 3500 systems and as spare parts. Orders for the legacy HVAC and LVAC power supply options (and spare parts) will continue to be allowed for approximately one month however the exact timing is governed by consumption and may vary. This window where both the legacy and new Universal AC power supply options can be ordered is intended to allow our customers to transition quoting and ordering documentation to the new Universal AC options while fulfilling current orders for the legacy AC options.

It is recommended that with the new Universal AC options now, that our customers plan to update any of their affected ordering systems and documentation to convert to the new Universal AC ordering options and spare part numbers. This may affect OEM customers specifically as well as projects occurring in stages that require orders to be entered and fulfilled during this timeline. Care must be taken in advance to prepare affected customers and projects such that there can be a smooth transition.

We intend to continue to allow ordering of the legacy HVAC and LVAC PIMs and the legacy AC Main Modules as spares only (not in systems) until stock of these legacy versions runs out. It is expected that this will occur within 1-2 months after the legacy versions are no longer available for ordering in 3500 systems. For spares or field replacements of a legacy HVAC or LVAC PIM or Legacy AC Main Module after they are no longer available for purchase as spares, paired replacement of both the Main Module and PIM with the new universal versions will be required to avoid a mixed Main Module-PIM set.

Support Contacts

For support information, contact our Bently Nevada technical support team by e-mailing bntechsupport@ge.com, by calling +1 775-215-1818 or by logging into www.bntechsupport.com.

You may also visit us at www.ge-energy.com/bently and navigate to Technical Support for a list of technical support phone numbers specific to your global location.



Affected Parts List

Refer to Table 1 and Table 2 for more detailed information.

3500/15	3500 POWER SUPPLY
127610-01	AC Power Supply Module
125840-01	High voltage AC PIM
125840-02	Low Voltage AC PIM
106M1079-01	UNIVERSAL 85-264 VAC POWER SUPPLY
106M1081-01	UNIVERSAL 85-264 VAC PIM
113M0744	UNIVERSAL 85-264 VAC AC PIM REPLACEMENT FUSE
102M3992	REPLACEMENT CONNECTOR FOR UNIVERSAL AC PIM AND CURRENT DC PIMS

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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

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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.
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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

Graphs and Figures

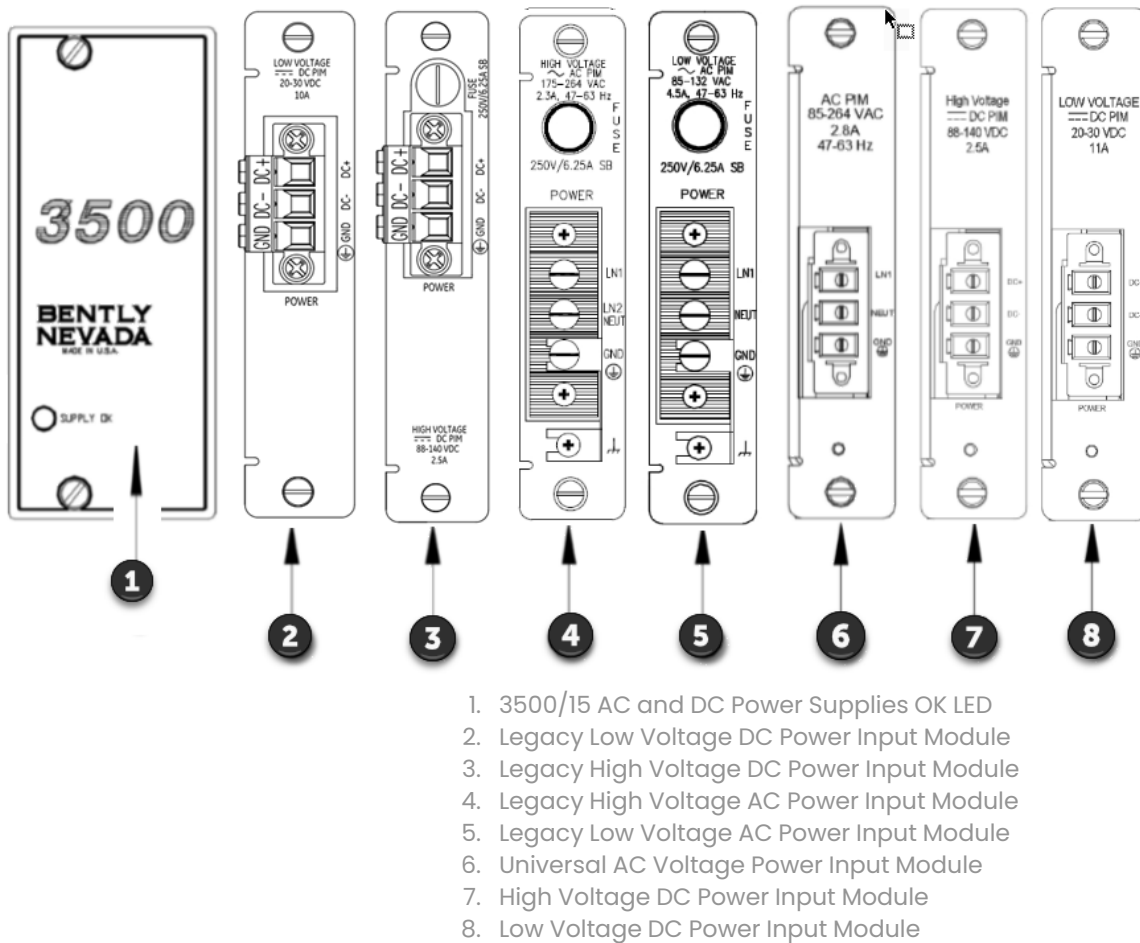


Figure 1: 3500/15 Power Supply and PIMS



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PRODUCT: 125840-02 / 3500/15 Legacy Low Voltage AC Power Input Module

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