

Replacement of Foxboro SPEC 200 2AX+PS9A (Style B) Power Supply

The Westinghouse Solution

The Foxboro 2AX+PS9A (Style B) power supply is obsolete and no longer supported by the OEM. To support the continued reliable operation of host equipment installed throughout the industry, a long-term solution needed to be identified.

Westinghouse has developed a reverse engineered solution (Westinghouse P/N 10023B43H01) which will provide the same functionality without impacting the fit or form of the original power supply. This solution is designed for safety related applications and has successfully completed seismic testing and qualification.

Customer Benefits

Westinghouse provides unique solutions to solve power supply obsolescence including non-safety related, augmented quality, or safety related with new qualifications. Westinghouse can offer cost effective and reliable reverse engineered power supplies with reasonable price and lead time.

Additional documentation can be provided to assist the customer with equivalency evaluation.

Design Benefits

Westinghouse's replacement power supply will:

- Provide the same functionality without impacting the fit or form of the original power supply.
- New power supply has a wider operating temperature range.
- New power supply is developed and qualified to meet industry standards such as ISO9001:2015, 10CFR50 Appendix B and Seismic Qualification with IEEE 323-1983 and IEEE 324-1987.



Westinghouse Part Number: #10023B43H01

Power Supply, AC-DC, Single Nest, Linear Regulated, ± 15 Vdc Dual Tracking Outputs, Used in Foxboro SPEC 200

<https://info.westinghousenuclear.com/westinghouse-parts-business>

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Westinghouse Parts Business Specifications Comparison

Design Characteristic	Original	Replacement (10023B43H01)
Input	120 Vac +10%/-15%, 47-63 Hz	120 Vac +10%/-15%, 47-63 Hz
Outputs	+15 Vdc @1.5 A max. -15 Vdc @1.5 A max.	+15 Vdc @1.5 A max. -15 Vdc @1.5 A max.
AC Power Requirement (Under Full Load)	100 W max. (sample unit measured at 103 W)	115 W
Line Regulation	0.2%	0.2%
Load Regulation	1.5% for change from 50 to 100%	1.5% for change from 50 to 100%
Ripple	20 mV max.	20 mV max.
Short Circuit Protection	A continuous short circuit on either the +15 or -15 V output will not damage the supply. Upon removal of the short circuit, the power supply returns to normal operation	Electronic current limiting
Overvoltage Protection	Both outputs are shut off if any power supply failure raises either output above 19 Vdc	If either output rises above 19 Vdc, both outputs are 'crowbarred'
Input Connection	3.5' 3-prong cord	5.5' 3-prong cord
Output Connection	6-pin bus connector	6-pin bus connector
Bus Connector Material	Flame retardant glass filled thermoplastic polyester	Flame retardant INFINAM® FR 4100 L
Dimensions (W x H x D)	3.40" x 8.57" x 12.25"	3.40" x 8.57" x 12.09"
Mounting	Occupies Two Units of Space in SPEC 200 Nest	Occupies Two Units of Space in SPEC 200 Nest
Weight	14 lb	9.5 lb
Operating Temperature Range	40 °F to 120 °F	23°F to 122 °F
Warm-Up Time	30 minutes	30 minutes

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