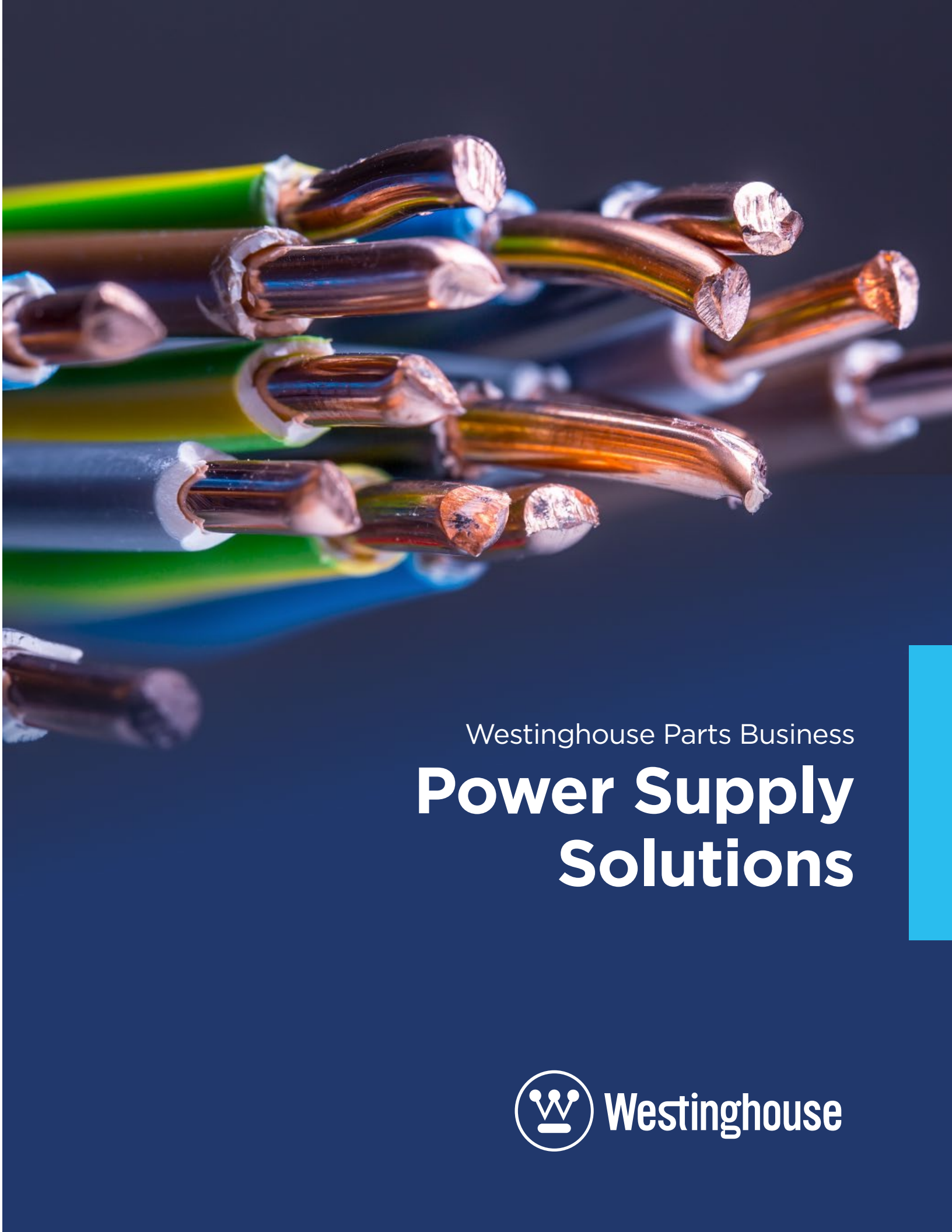


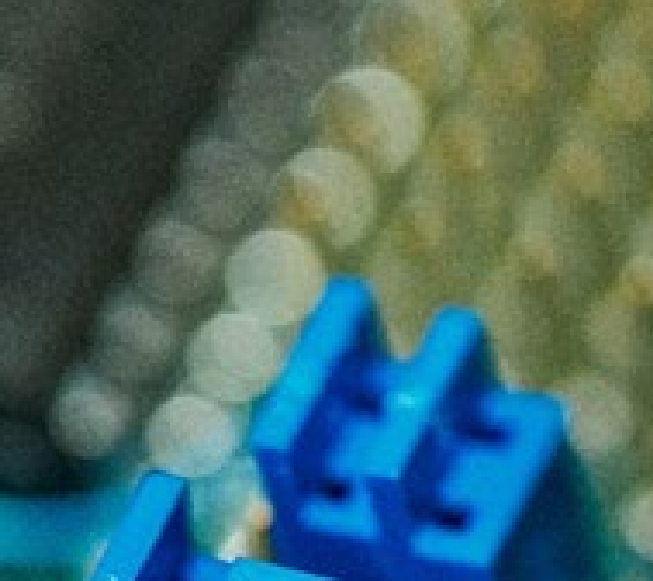


Westinghouse Parts Business

Power Supply Solutions



Westinghouse



Power Supply Solutions

Westinghouse's legacy of innovation continues with our turnkey, equivalent replacement power supply solutions, designed to meet today's operational demands while preserving the integrity of original systems. With decades of experience in the nuclear industry, Westinghouse offers power supply solutions that address obsolescence, improve reliability, and extend system life. Our power supply capabilities allow us to replicate and enhance legacy designs with modern components, ensuring seamless integration and compliance.



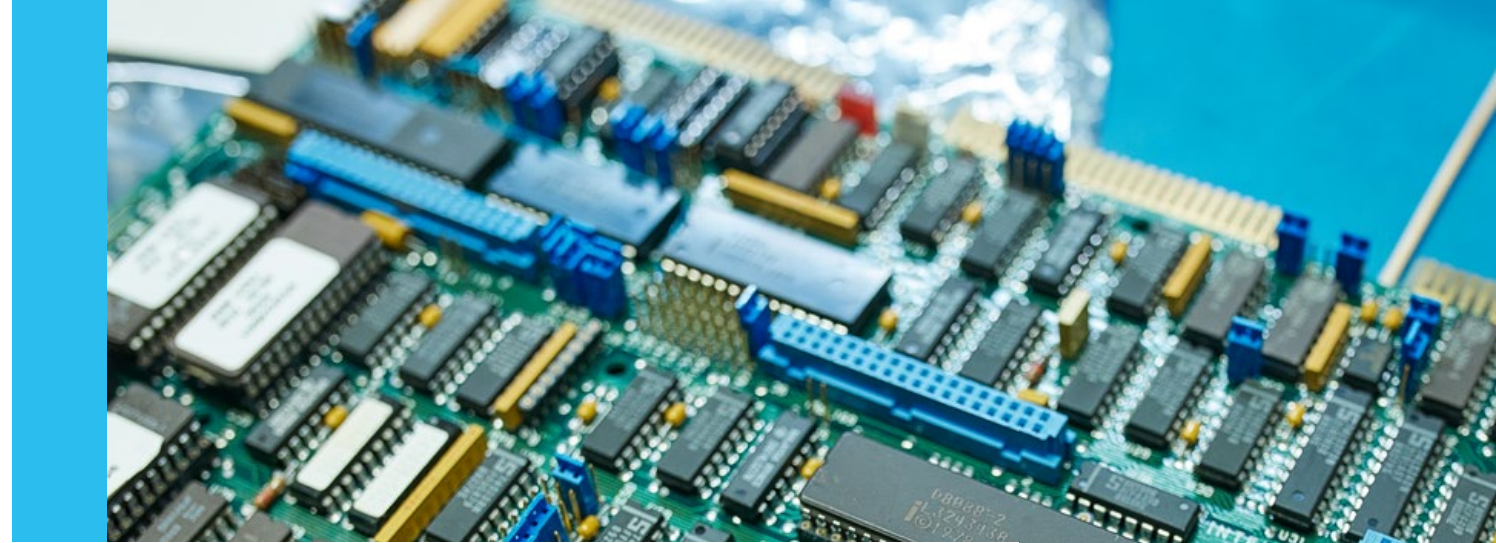
Why Westinghouse?

With decades of experience in the nuclear industry, Westinghouse is a trusted leader in power supply development and qualification. Our solutions are backed by rigorous testing, compliance with industry standards, and all necessary documentation. We offer cost-effective replacements with optimized lead times and provide engineering support to ensure reliable operation of both OEM and non-OEM systems.

Westinghouse has proactively invested in developing solutions to help the industry combat obsolescence challenges like the Foxboro SPEC 200 control system that are no longer supported by original manufacturers. These ready-to-go equivalent replacements have been designed to maintain original form, fit, and function while meeting modern standards. Westinghouse can also support custom solutions to meet all your power supply needs.



Power Supply Solutions

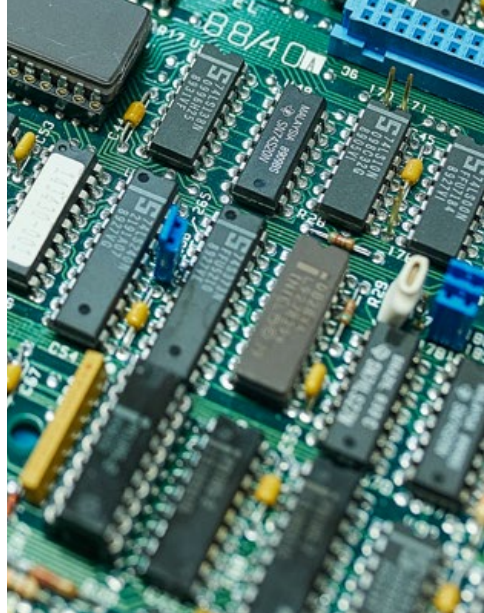


An Investment in Innovation

Westinghouse power supply solutions deliver seamless integration with existing systems while improving reliability and performance. Each replacement is designed to meet the original specifications as well as applicable industry standards. These solutions reduce maintenance needs, extend equipment life, and provide a cost-effective approach to managing obsolescence.

- ▶ Designed to maintain original form, fit, and function for easy installation
- ▶ Designed based on original specifications to provide identical functionality
- ▶ Fully tested and seismically qualified for safety related solutions
- ▶ Compliant with all applicable industry standards

Westinghouse equivalent replacement power supplies deliver more than just form-fit-function replacements. They enhance performance and reliability across critical systems. Each solution is designed based on original specifications to provide the same functionality with commercially available components for long-term durability. These units are designed and manufactured in accordance with ISO 9001:2015 and may be seismically qualified to applicable IEEE standards and provided in accordance with 10CFR50 Appendix B. By leveraging advanced diagnostics and robust testing, these power supplies reduce maintenance needs, minimize downtime risk, and provide a dependable solution for managing obsolescence without costly redesigns.



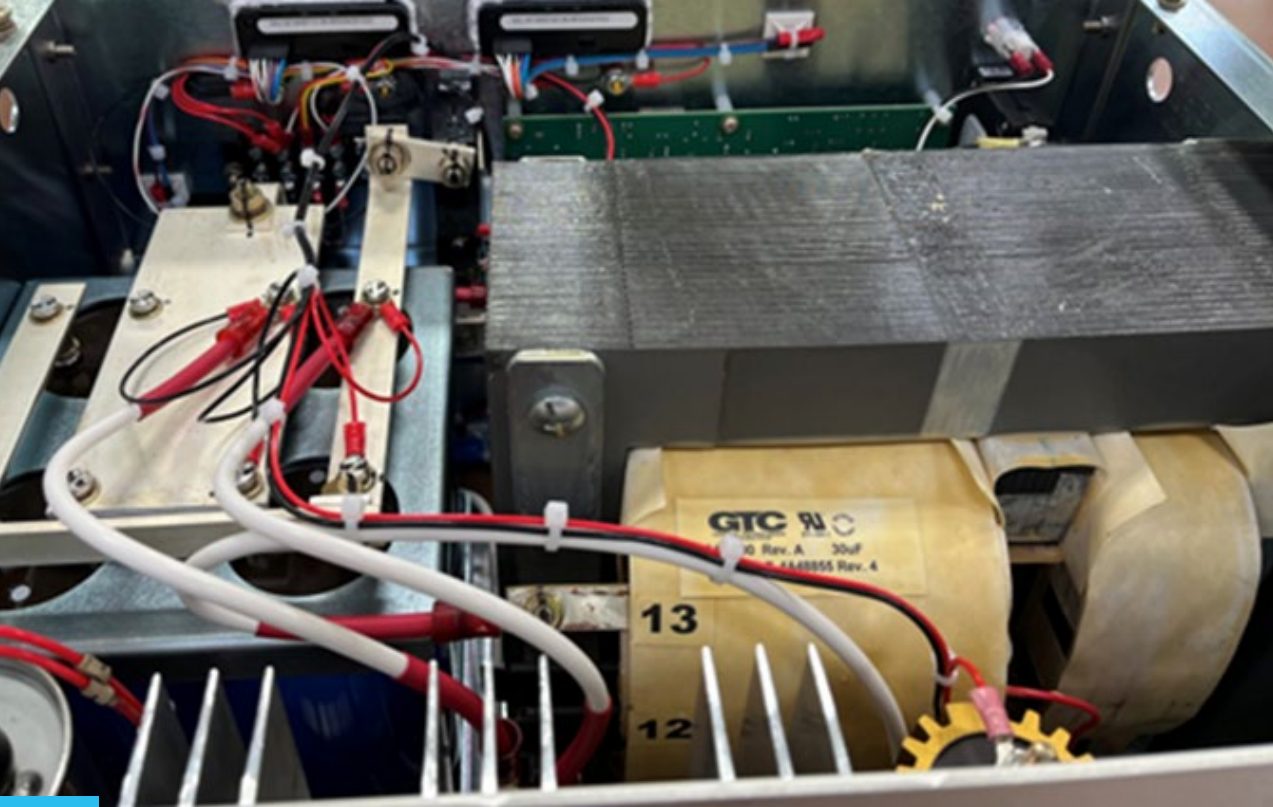
Power
Supply
Solutions

Turnkey and Custom Solutions

Our equivalent replacement power supplies are designed to maintain original form, fit, and function, and reduce maintenance needs. Each solution can be tailored to meet site-specific requirements, with options for customization and scalability.

Westinghouse solutions cover a wide range of applications, from non-safety to safety related systems. We provide customization options to meet site-specific requirements and offer documentation for part change evaluations in accordance with EPRI and NEI SIEP guidance. These scalable solutions ensure compatibility across different plant configurations and long-term operational support.

- ▶ Scalable for multiple plant configurations
- ▶ Custom design and qualification available
- ▶ Documentation to support regulatory compliance and per EPRI and NEI SIEP guidance



Applicable Codes & Standards

All solutions are designed and developed in accordance with ISO 9001:2015 and can be qualified to IEEE 323 and IEEE 344 standards. We are capable of implementing environmental and EMC requirements as part of a custom solution.

- ▶ ISO 9001:2015
- ▶ IEEE 323 and IEEE 344
- ▶ 10CFR50 Appendix B



Readily Available Parts

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

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 an equivalent replacement power supply 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.



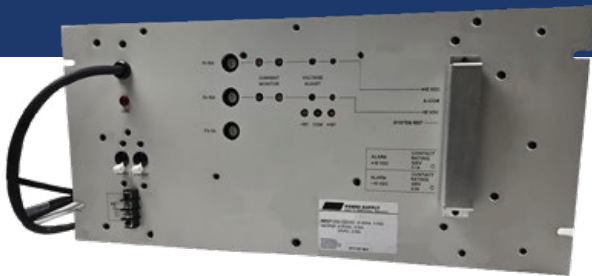
Westinghouse Part Number: #10023B43H01
Power Supply, AC-DC, Single Nest, Linear Regulated, ±15 Vdc Dual Tracking Outputs, Used in Foxboro SPEC 200

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

Readily Available Parts

Foxboro SPEC 200 2ARPS-A6 / 2ARPS05-A6 Power Supply

The Foxboro 2ARPS-A6 and 2ARPS05-A6 power supplies are obsolete and no longer supported by the OEM. The power supplies are designed to supply all electrical power to a Foxboro SPEC 200 system. To support the continued reliable operation of host equipment installed throughout the industry, a long-term solution needed to be identified.



Westinghouse has developed equivalent replacement power supply solutions (Westinghouse P/N 10185D42H01 and 10185D43H01) which will provide the same functionality without impacting the fit or form of the original power supplies. This solution is designed for safety related applications and has successfully completed seismic testing and qualification.

Westinghouse Part Number:
#10185D42H01
Power Supply, Multinest,
+/- 15VDC,
Used in Foxboro SPEC 200

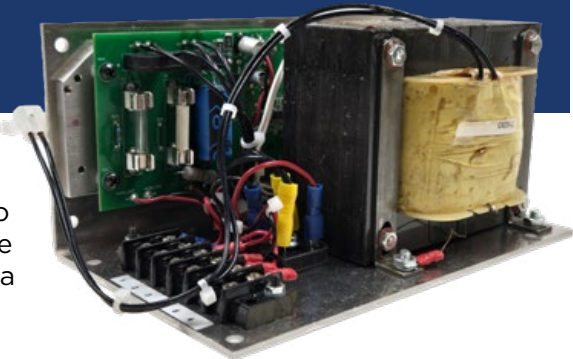
Design Characteristic	Original (2ARPS-A6, 2ARPS05-A6)		Replacement (10185D42H01, 10185D43H01)	
Input	120 Vac +10%, -15%, 60 Hz		102-132 Vac, 50-400 Hz, Single Phase	
AC Power Consumption *	2ARPS-A6	450 W / 500 VA	10185D42H01	460 W
	2ARPS05-A6	500 W / 550 VA	10185D43H01	460 W
Outputs (Regulated)	±15 Vdc, 5 A		±15 Vdc, 5 A	
AC Output (Unregulated)	24 Vac, 3 A		24 Vac, 3 A	
Line Regulation	0.2% maximum for -15 to 10% change from nominal input voltage		±0.1% maximum for -15 to 10% change from nominal input voltage	
Load Regulation	1.0% max for 50-100% load change 3.3% max for 10-100% load change 6.6% max for no load to full load change		1.0% max for 50-100% load change 3.3% max for 10-100% load change 6.6% max for no load to full load change	
Ripple	200 mV maximum where ripple frequency is twice supply frequency		1.5 mV RMS	
Overload/Short Circuit Protection	Yes (Overcurrent protection circuit provides an output current limit of 5.5 A)		Yes (Foldback current limiting between 5.5 A and 6 A with automatic recovery)	
Overvoltage Protection	Yes, crowbar SCR (17.2 to 19.5 V)		Yes, crowbar SCR (17.2 to 19.5 V)	
Input Connection	3-prong cable		3-prong cable	
Output Connection	6-32 terminal screws		6-32 terminal screws w/0.250" quick disconnect terminals	
Dimensions (W x H x D)	19" x 8.75" x 13.5"		19" x 8.70" x 12.02" (13.7" w/heat sink)	
Mounting	Panel / 19" rack mount (4) slotted bolt holes 18.25" x 5.75" footprint (centerline-to-centerline H x W)		Panel / 19" rack mount (4) slotted bolt holes 18.25" x 5.75" footprint (centerline-to-centerline H x W)	
Approx. Weight	51 lbs.		39 lbs.	
Ambient Operating Temperature Range	Not Specified		-10 to +55°C	
Front Panel Configuration *	2ARPS-A6	No current monitoring terminals and front panel accessible fuses	10185D42H01	With current monitoring terminals and front panel accessible fuses
	2ARPS05-A6	With current monitoring terminals and front panel accessible fuses	10185D43H01	With current monitoring terminals and front panel accessible fuses
Alarm Contact Rating *	2ARPS-A6	0.5 A @ 125 Vdc	10185D42H01	0.1 A @ 125 Vdc
	2ARPS05-A6	0.1 A @ 125 Vdc	10185D43H01	A @ 125 Vdc

*Note: The Foxboro models 2ARPS-A6 and 2ARPS05-A6 are identical with the exception of AC Power Consumption, Front Panel Configuration, and Alarm Contact Rating.

Readily Available Parts

Beta Hathaway Power Supply Model AC086

The Hathaway Process Instrumentation Model AC086 (P/N 812916-001 or 305221-001) power supply is obsolete and is 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 an equivalent replacement power supply solution (Westinghouse P/N 10185D40H01) which will provide the same functionality and fit as the original power supply. This solution is designed for non-safety related applications and it can be qualified as safety related if required. This power supply has been developed and qualified to meet industry standards in accordance with ISO 9001:2015.

Westinghouse Part Number:
#10185D40H01
Power Supply, AC-DC, Triple Isolated,
w/ 12 Vdc Linear Regulated Output and
24 Vdc & 125 Vdc Unregulated Outputs,
Used in Beta Annunciator Systems

Design Characteristic	Original	Replacement (10185D40H01)
Input	120 Vac, 50-400 Hz	105-132 Vac, 50-400 Hz
Output	Unregulated 24 Vdc @ 7.5 A (10 A Fuse) 125 Vdc @ 0.2 A (0.5 A fuse) Regulated 12 Vdc @ 1.8 A	Unregulated 24 Vdc @ 7.5 A (10 A Fuse) 125 Vdc @ 0.2 A (0.5 A fuse) Regulated 12 Vdc @ 1.8 A
AC Load @Full Output Load	300 W (published) 312 W (tested)	268.8 W
Line Regulation (12 Vdc Output)	Not Specified	±0.15%
Load Regulation (12 Vdc Output)	Not Specified	±0.15%
Ripple (12 Vdc Output)	Not Specified	≤25 mV RMS
Connections	Input Molex 2-pin Plug Output #6 Screw Terminals	Input Molex 2-pin Plug Output #6 Screw Terminals
Dimensions (L x H x D)	8.10" x 3.88" x 5.00"	8.10" x 3.88" x 5.00"
Mounting (Hole Size, Configuration, etc.)	Reference Attachments	Reference Attachments
Weight	10 lb	11.5 lb
Operating Temperature Range	0 to 50 °C	0 to 50 °C
Baseplate Coating	Anodized (black)	None

Solution Availability

With a strong foundation in proven power supply technology and a pipeline of new designs underway, Westinghouse offers more than off-the-shelf solutions – we provide years of engineering expertise. By working closely with customers to evaluate existing systems and develop optimized replacements, we help future-proof critical operations and reduce downtime.

- ▶ All solutions provider (OEM & non-OEM systems)
- ▶ Non-OEM solutions can be applied to various systems including SPEC 200, Reactor Protection, Radiation Monitoring, Rad Waste, HVAC, etc.
- ▶ Proactively offering at least 9 ready to deploy, with at least 4 additional developments underway and more planned for release in 2026.

Original Model PN	Westinghouse PN	Availability Status
812916-001, 305221-001	10185D40H01 N	Currently Available
2AX+PS9A (Style B)	10023B43H01 Y 10023B43H01 N	Currently Available
2ARPS-A6 2ARPS05-A6	10185D42H01 Y 10185D42H01 N 10185D43H01 Y 10185D43H01 N	Currently Available
184C4571P005 DA343A1281P001 184C4571P008 DA343A1281P002	10023B40G01 Y 10023B40G01 N 10023B40G02 Y 10023B40G02 N	Currently Available
02810600-001	10186D80G01 Y 10186D80G01 N	Currently Available
03573100-001	10186D81G01 Y 10186D81G01 N	Currently Available
305222-001	10185D41H01 N	Currently Available
02810770-001	10186D82G01 Y 10186D82G01 N	Currently Available
55GL1151A	10207D05G01 N	Currently Available
691685-001	10207D37G01 N	Coming Soon
812725-001 305223-001	10207D38G01 N	Coming Soon
112C2220G008	10207D39G01 Y 10207D39G01 N	Coming Soon
201401-101	10207D40G01 Y 10207D40G01 N	Coming Soon

Contact Us

Whether you're facing obsolescence, planning a system refresh, or seeking custom power supply solutions, Westinghouse is your trusted partner. Contact us to explore how our power supply capabilities can support your operational goals.

To learn more about the **Westinghouse Parts Business** and our I&C obsolescence solutions for power supplies and other critical components, please contact our power supply sales engineer, Jack Laslo at jack.laslo@westinghouse.com.



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