

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

The Westinghouse Solution

The Foxboro 2ARPS-A6 and 2ARPS05-A6 power supply is obsolete and no longer supported by the OEM.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 a reverse engineered solution (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.

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 supplies cover a wider range of input voltages and provide lower ripple effect.
- 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: #10185D42H01

Power Supply, Multinest, +/- 15VDC,

Used in Foxboro SPEC 200

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

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Specifications Comparison

Design Characteristic	Original (2ARPS-A6, 2ARPS05-A6)		Replacement (10185D42, 10185D43)	
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	0.1 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.

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