

Replacement of Beta Hathaway Power Supply Model AC090

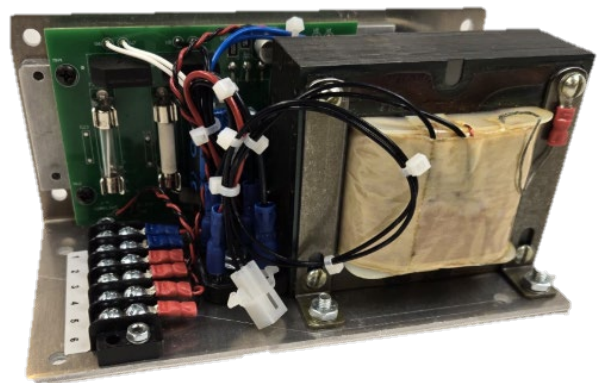
The Westinghouse Solution

To address obsolescence and support continued operation of installed equipment, Westinghouse has developed an equivalent replacement for the obsolete Beta Hathaway Process Instrumentation Model AC090 (P/N 305222-001) power supply used in Betalarm annunciators. The Westinghouse 10185D41H01 power supply is designed to provide the same functionality as the original unit while maintaining the original form, fit, and function to avoid costly system modifications.

Designed for non-safety related applications, this solution can be qualified for safety related use if required and is suitable for installation in existing plant equipment. Leveraging Westinghouse's experience in reverse engineering and qualification of legacy power supplies, this replacement provides a reliable, long-term solution for sustaining annunciator systems across the installed fleet.

Customer Benefits

As legacy power supplies become obsolete and OEM support diminishes, facilities require replacement solutions that maintain system performance without introducing additional cost or qualification complexity. Westinghouse addresses these challenges with reverse engineered power supplies that support non-safety, augmented quality, and safety related applications. Reliable performance, competitive pricing, and consistent lead times are paired with supporting documentation to streamline equivalency evaluations and implementation.



Westinghouse Part Number: 10185D41H01

Power Supply, AC-DC, Triple Isolated

Design Benefits

Westinghouse's replacement power supply delivers equivalent functionality while maintaining compatibility with the original equipment, minimizing installation impact.

- Provides the same functionality without impacting the fit of the original power supply
- Expands operating flexibility with a wider input voltage range and an extended operating temperature range
- Developed under an ISO 9001:2015 quality program to support reliable long-term performance

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

Westinghouse Electric Company
1000 Westinghouse Drive
Cranberry Township, PA 16066
www.westinghousenuclear.com

June 2026

2026 Westinghouse
Electric Company LLC.
All Rights Reserved



Specifications Comparison

Design Characteristic	Original (305222-001)	Replacement (10185D41H01)
Input	120 Vac, 50-400 Hz	105-132 Vac, 50-400 Hz
Output	<u>Unregulated</u> 24 Vdc @ 3.5 A (5 A fuse) 125 Vdc @ 0.1 A (0.5 A fuse) <u>Regulated</u> 12 Vdc @ 0.9 A	<u>Unregulated</u> 24 Vdc @ 3.5 A (5 A fuse) 125 Vdc @ 0.1 A (0.5 A fuse) <u>Regulated</u> 12 Vdc @ 0.9 A
AC Load @Full Output Load	147.6 W	177.6 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	<u>Input</u> Molex 2-pin Plug <u>Output</u> #6 Screw Terminals	<u>Input</u> Molex 2-pin Plug <u>Output</u> #6 Screw Terminals
Dimensions (L x H x D)	7.12" x 3.25" x 3.75"	7.12" x 3.25" x 3.75"
Weight	6.75 lbs.	5.8 lbs.
Operating Temperature Range	0 to 50 °C	-10 to 50 °C
Baseplate Coating	Anodized (black)	None

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

Westinghouse Electric Company
 1000 Westinghouse Drive
 Cranberry Township, PA 16066
www.westinghousenuclear.com

June 2026
 2026 Westinghouse
 Electric Company LLC.
 All Rights Reserved

