

Replacement of Sorrento 03573100-001 Power Supply

The Westinghouse Solution

To maintain reliable performance of installed equipment, Westinghouse has developed an equivalent replacement for the Sorrento 03573100-001 power supply used in process monitoring applications. The Westinghouse 10186D81G01 power supply is designed to replicate the electrical performance of the original unit, providing a regulated high-voltage output of 500–1,250 Vdc for loads up to 4 mA. This power supply supports Geiger-Mueller tubes and scintillation detectors used in process monitor systems, while maintaining the original form, fit, and function to eliminate the need for system modifications.

Engineered for safety related applications, this solution has completed seismic testing and qualification and is suitable for installation in existing plant equipment. Building on Westinghouse's expertise in reverse engineering and qualification of legacy components, this replacement offers a dependable, long-term solution for sustaining critical radiation monitoring 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.

Design Benefits

Westinghouse's replacement power supply delivers equivalent functionality while maintaining the original form and fit, eliminating the need for equipment modifications.

- Provides the same electrical performance as the original power supply without impacting form or fit
- Matches the original mounting configuration, allowing direct installation in the existing location
- Developed under an ISO 9001:2015 quality program, compliant with 10 CFR 50 Appendix B, and qualified to IEEE 323-1983 and IEEE 344-1987



Westinghouse Part Number: 10186D81G01

Power Supply, High Voltage, 500-1250Vdc

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Specifications Comparison

Design Characteristic	Original (03573100-001)	Replacement (10186D81G01)
Input	+24 Vdc	+24 Vdc $\pm$ 10%
Output	500-1,250 Vdc @4 mA	500-1,250 Vdc @4 mA
Power Consumption @Full Output Load	Not Specified	3.55 W
Line Regulation	Not Specified	0.1%
Load Regulation	Not Specified	0.2%
Ripple	Not Specified	0.2%, peak-to-peak
Input Protection	Not Specified	“Soft Start” circuit minimizes start-up power stresses
Output Protection	Note Specified	Current regulation circuit protects power supply from short circuits, overload, and arcing
Connections	Input: Molex 3-pin Output: MHV Jack (Amphenol 27025)	Input: Molex 3-pin Output: MHV Jack (Amphenol 27025)
Dimensions (L x H x D)	5.45” x 4.98” x 1.35”	5.45” x 4.98” x 1.35”
Weight	1.15 lbs.	0.8 lbs.
Operating Temperature Range	Not Specified	-10 to 60 °C
Enclosure Coating	Cadmium-Plated Steel	Anodized Aluminum

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

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