

Replacement of Sorrento 02810600-001 Power Supply

The Westinghouse Solution

To support continued reliable operation, Westinghouse has developed an equivalent replacement for the Sorrento 02810600-001 power supply installed in NIM bin high-range monitor readout modules. The Westinghouse 10186D80G01 power supply is designed to provide the required electrical performance of the original unit, delivering dual regulated ± 24 Vdc outputs, while preserving the original form, fit, and function to avoid costly system modifications.

Designed for safety related applications, this solution has successfully completed seismic testing and qualification and is fully suitable for installation in existing plant equipment. Leveraging Westinghouse's experience in reverse engineering and qualification of legacy power supplies, this replacement provides a long-term, reliable path forward for maintaining critical 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:

- Provides the same electrical performance without impacting form or fit of the original power supply
- Maintains 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: 10186D80G01

Power Supply, ± 24 Vdc

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

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Specifications Comparison

Design Characteristic	Original (02810600-001)	Replacement (10186D80G01)
Input	115 Vac $\pm 10\%$, 60 Hz $\pm 5\%$	115 Vac $\pm 10\%$, 60 Hz $\pm 5\%$
Output	+24 Vdc ± 1.5 Vdc @ 1.2 A -24 Vdc ± 1.5 Vdc @ 0.5 A	+24 Vdc ± 1.5 Vdc @ 1.2 A -24 Vdc ± 1.5 Vdc @ 0.5 A
AC Load @Full Output Load	81.65 W	83.95 W
Line Regulation	Not Specified	$\pm 0.1\%$
Load Regulation	Not Specified	$\pm 0.1\%$
Ripple	≤ 20 mV rms (+24 Vdc output) ≤ 10 mV rms (-24 Vdc output)	≤ 20 mV rms (+24 Vdc output) ≤ 10 mV rms (-24 Vdc output)
Connections	Barrier strip w/6-32 terminal screws	Barrier strip w/6-32 terminal screws
Dimensions (H x W x D)	5.3" x 2.7" x 5.9"	5.2" x 2.7" x 4.81"
Weight	3.5 lbs.	3.4 lbs.
Operating Temperature Range	Not Specified	-20 to 71 °C
Case Coating	Anodized (black)	Anodized (black)

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