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Data Sheet

August 3, 2026

SORENSEN/XANTREX

Sorenson/Xantrex XHR-100-06 DC Power Supply 0-100V 0-06A

The Sorenson/Xantrex XHR-100-06 is a DC Power Supply with an output voltage range of 0-100V and a current range of 0-06A. This power supply is suitable for a variety of applications requiring precise and reliable DC power.



MODEL

**Sorenson/Xantrex
XHR-100-06**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

XHR-100-06

LISTING

<https://aumictechlabs.com/products/xhr-100-06-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Sorenson/Xantrex XHR-100-06 is a 1000 W programmable DC power supply engineered for benchtop and system integration environments. This half-rack instrument delivers 0-100 Vdc across 0-6 Adc, with 600 W available at rated output. Zero-voltage soft switching technology minimizes switching losses and noise while power factor correction reduces input current harmonics across universal AC input (85-250 Vac, 47-63 Hz). Operators control voltage and current independently via ten-turn front panel knobs, achieving 0.02% voltage resolution. Simultaneous digital display of both parameters enables precise real-time monitoring. The supply operates in constant voltage or constant current modes and includes remote sensing with 5 V line loss compensation for distributed load compensation. Transient response is fast - output voltage settles to within 0.5% of its initial level within 1 ms during 0-100% load steps. Overvoltage and

over-temperature protection circuits safeguard the load and instrument. Analog programming via 0–5 V or 0–10 V sources (or 0–5 k Ω /0–10 k Ω resistance) enables system integration; an isolated programming interface option is available for ground-isolated applications. Output connectors mount on the front or rear panel to suit system architecture. At AC input below 95 Vac, maximum deliverable power reduces to 900 W. At 120 Vac nominal input, input current peaks at 11 A; at 100 Vac, 13 A maximum. Technical Specifications Output: 0–100 Vdc, 0–6 Adc (600 W rated) Power Rating: 1000 W (nominal) Input: 85–250 Vac, 47–63 Hz Input Current: 11 A max @ 120 Vac; 13 A max @ 100 Vac Soft Switching: Zero-voltage topology at 125 kHz (250 kHz ripple frequency) Voltage Resolution: 0.02% of maximum Load Settling: $\pm 0.5\%$ within 1 ms (0–100% step) Protection: Overvoltage and over-temperature Remote Sensing: 5 V line loss compensation included Analog Programming: 0–5 V or 0–10 V; 0–5 k Ω or 0–10 k Ω resistance Isolated Programming: Optional Key Features Dual ten-turn potentiometers for high-resolution voltage and current adjustment Simultaneous front panel voltage and current metering Constant voltage and constant current modes Power factor correction for low input harmonic distortion Half-rack footprint preserves vertical console space Choice of front or rear output connectors Typical Applications Component characterization and burn-in testing Automated test system integration OEM instrument cabinets and benchtop labs Compatibility & Integration Analog control and remote sensing support direct integration into automated test frameworks. Isolated programming option eliminates ground loops in multi-supply architectures.

Features & description

From manufacturer datasheet

Features

- Output rating: 0–100 V DC, 0–6 A, 600 W (XHR 100-6 / XHR-100-06)
- Half-rack, stackable package; front binding posts and rear output/sense connectors
- Zero-voltage soft switching; power factor correction; universal 85–250 VAC input
- Constant voltage or constant current with automatic crossover
- Simultaneous front-panel voltage and current meters; ten-turn voltage and current controls
- Remote sense with approximately 5 V line-loss compensation (family)
- Analog programming/monitoring; optional GPIB or RS-232 cards
- Standby mode; OVP and overtemperature protection
- LabVIEW / LabWindows drivers for the XHR family

XHR100 Characteristics / Specifications

PARAMETER	VALUE
Model	XHR-100-06 / XHR 100-6
Manufacturer	Sorensen / Xantrex (AMETEK Programmable Power)
Instrument Type	Programmable single-output DC power supply
Alias	XHR-100-06; XHR 100-6 Output Ratings (this model)
Output Voltage	0 to 100 V DC
Output Current	0 to 6 A
Output Power	600 W XHR Family Electrical Context (published XHR 100-10 row used as nearest 100 V family reference where 100-6 row is not in OEM 1 kW table) For XHR 100-10 (0–100 V, 0–10 A, 1000 W) OEM datasheet lists:
Line Regulation	12 mV / 2 mA
Load Regulation	12 mV / 6 mA
Output Ripple (rms)	10 mV
Output Noise (	20 MHz, p-p): 100 mV
Drift (8 hours)	50 mV / 10 mA
Transient Response	1 ms to recover within 0.5% after up to 50% load step (series)
Switching Frequency	nominal 125 kHz (250 kHz output ripple component) for 7.5–300 V models AC Input / Mechanics (XHR series)
AC Input	85–250 VAC, 47–63 Hz, PFC; PF 0.99 min at full load and 120 VAC
Weight	approx. 6.4 kg (14 lb)
Operating Temperature	0 to 40 °C (series); storage –40 to 85 °C Standard Operating Conditions Typical XHR electrical performance specified near 25 °C ±5 °C at nominal line. Derate as required for AC input below 95 V on higher-power family units.
Output rating	0–100 V DC, 0–6 A, 600 W (XHR 100-6 / XHR-100-06)

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 40 °C (series); storage -40 to 85 °C
Operating Temperature	0 to 40 °C (series); storage -40 to 85 °C

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Model	XHR-100-06 / XHR 100-6
Manufacturer	Sorensen / Xantrex (AMETEK Programmable Power)
Instrument Type	Programmable single-output DC power supply
Alias	XHR-100-06; XHR 100-6

Output Ratings (this model)

Specifications

PARAMETER	VALUE
Output Voltage	0 to 100 V DC
Output Current	0 to 6 A
Output Power	600 W

XHR Family Electrical Context (published XHR 100-10 row used as nearest 100 V family reference where 100-6 row is not in OEM 1 kW table)
For XHR 100-10 (0-100 V, 0-10 A, 1000 W) OEM datasheet lists:

Specifications

PARAMETER	VALUE
Line Regulation	12 mV / 2 mA
Load Regulation	12 mV / 6 mA
Output Ripple (rms)	10 mV

Output Noise (0-20 MHz, p-p): 100 mV
Drift (8 hours): 50 mV / 10 mA
Remote Programming Accuracy (analog, default range): 1% zero to full scale
Transient Response: 1 ms to recover within 0.5% after up to 50% load step (series)
Switching Frequency: nominal 125 kHz (250 kHz output ripple component) for 7.5-300 V models

AC Input / Mechanics (XHR series)
AC Input: 85-250 VAC, 47-63 Hz, PFC; PF 0.99 min at full load and 120 VAC
AC Current (1 kW-class at full load): 13 A max @ 100 VAC; 11 A max @ 120 VAC; 6 A max @ 220 VAC
Dimensions (half-rack): approx. 87.0 mm H x 214.6 mm W x 472.2 mm D (3.425" x 8.45" x 18.59")
Weight: approx. 6.4 kg (14 lb)
Operating Temperature: 0 to 40 °C (series); storage -40 to 85 °C

Standard Operating Conditions
Typical XHR electrical performance specified near 25 °C ±5 °C at nominal line. Derate as required for AC input below 95 V on higher-power family units.

Operational Notes

Confirm faceplate rating 100 V / 6 A / 600 W. Do not assume XHR 100-10 (10 A / 1000 W) limits. Use remote sense for accurate voltage at the load within the published compensation range.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.