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Data Sheet

August 14, 2026

AMETEK / XANTREX / SORENSEN

Ametek / Xantrex / Sorensen XFR 6-200 Programmable DC Power Supply

Ametek / Xantrex / Sorensen DC Power Supplies. Current: 200 A, Current: Key Features.



MODEL

**Ametek / Xantrex /
Sorensen XFR 6-
200**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

XFR 6-200

LISTING

[https://aumictechlabs.c
om/products/xfr-6-200
-3/](https://aumictechlabs.com/products/xfr-6-200-3/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Ametek/Xantrex/Sorensen XFR 6-200 is a programmable DC power supply delivering stable 0-6 V DC output at up to 200 A, with 1200 W total output power. Engineered for continuous operation in standalone and integrated system configurations, this unit excels in DC equipment powering, magnet control, and component burn-in testing. Advanced soft switching technology at 78 kHz nominal frequency minimizes switching transients, reduces heat generation, and improves overall reliability. The compact 1U rack-mount form factor (1.7 × 19.0 × 20.0 inches) incorporates efficient thermal management, enabling dense stacking without auxiliary ventilation requirements. Technical Specifications Output Performance: Output Power: 1200 W Voltage Range: 0-6 VDC Maximum Current: 200 A Line Regulation: 2.6 mV (voltage), 22 mA (current) Load Regulation: 8.2 mV (voltage), 45 mA (current) Output Ripple (rms): 9 mV (voltage), 750 mA (current) Output Noise (0-20 MHz): 75 mV Switching Frequency: 78 kHz nominal (156 kHz output

ripple) Programming & Monitoring: Voltage Programming Inputs: 0–5 k Ω , 0–10 k Ω resistance; 0–5 V, 0–10 V voltage sources Current Programming Inputs: 0–5 k Ω , 0–10 k Ω resistance; 0–5 V, 0–10 V voltage sources Voltage Monitor Outputs: 0–5 V, 0–10 V (default) for 0–100% output scaling Current Monitor Outputs: 0–5 V, 0–10 V (default) for 0–100% output scaling Remote Sense Line Drop Compensation: Up to 5 V/line Protection & Environmental: Over-Voltage Protection: Adjustable, standard Over-Temperature Protection: Standard with latching or auto-reset Thermal Shutdown: Standard Operating Temperature: 0 to 50° C at full rated currentKey Features Soft switching technology minimizes transients and heat Bus bar output connectors (0.332 in. diameter holes) Remote analog programming for voltage and current control Optional GPIB, RS-232, and isolated programming interfaces FCC Part 15B Class A and ICES-001 Class A compliance Approximately 18 lb (8.2 kg) weightTypical Applications DC equipment and load testing Electromagnet and solenoid control Component burn-in and accelerated life testing Laboratory and production test systemsCompatibility & Integration Remote analog programming sources must be isolated. Output connections use 3-terminal wire clamp AC input connector. Optional interface cards support GPIB and RS-232 communication for system integration.

XFR6200 Characteristics / Specifications

PARAMETER	VALUE
Output Voltage	0 to 6 V
Output Current	0 to 200 A
Output Power	1200 W
Line Regulation Voltage	2.6 mV
Line Regulation Current	22 mA
Load Regulation Voltage	6.2 mV
Load Regulation Current	45 mA
Meter Accuracy Voltage	0.04 V
Meter Accuracy Current	2 A
Output Noise Voltage RMS	10 mV
Output Noise Voltage Peak To Peak 0 To 20 MHz	75 mV
Output Noise Current RMS	750 mA
Drift 8 Hours Voltage	3 mV
Drift 8 Hours Current	100 mA
Temperature Coefficient Voltage	1.2 mV perCTemperature Coefficient Current: 60 mA perCOVP Adjustment Range: 0.3 to 6.6 V
Program Rise Time	100 ms
Program Fall Time	100 ms
Remote Sense Line Drop Compensation	5 V per line
Operating Temperature	0 C to 50 C
Storage Temperature	minus 20 C to 70 C
Form Factor	1U 19 inch rack
Series Power Class	1200 W XFR
Rise Time	100 ms

XFR6200 Specifications

PARAMETER	VALUE
Key Features	Zero voltage soft switching for low noise and high efficiency
Full rated power from 0 to 50 C without derating	Analog programming standard with optional isolated analog
Technical Specifications	Output Voltage: 0 to 6 V

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 20 C to 70 C
Operating temperature	0 C to 50 C
Operating Temperature	0 C to 50 C
Form Factor	1U 19 inch rack
Series Power Class	1200 W XFR Notes Numeric rows from Xantrex/Sorensen XFR Series 1.2 kW electrical specifications table for model XFR 6-200. Specs typical at 25 C plus or minus 5 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	
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PARAMETER	VALUE
Output Voltage	0 to 6 V
Output Current	0 to 200 A
Output Power	1200 W
Line Regulation Voltage	2.6 mV
Line Regulation Current	22 mA
Load Regulation Voltage	6.2 mV
Load Regulation Current	45 mA
Meter Accuracy Voltage	0.04 V
Meter Accuracy Current	2 A
Output Noise Voltage RMS	10 mV
Output Noise Voltage Peak To Peak 0 To 20 MHz: 75 mV	
Specifications	
PARAMETER	VALUE
Output Noise Current RMS	750 mA
Drift 8 Hours Voltage	3 mV
Drift 8 Hours Current	100 mA
Temperature Coefficient Voltage	1.2 mV perCTemperature Coefficient Current: 60 mA perCOVP Adjustment Range: 0.3 to 6.6 V
Program Rise Time	100 ms
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Remote Sense Line Drop Compensation	5 V per line
Operating Temperature	0 C to 50 C
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Notes

Numeric rows from Xantrex/Sorensen XFR Series 1.2 kW electrical specifications table for model XFR 6-200.
Specs typical at 25 C plus or minus 5 C.

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.