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Data Sheet

August 14, 2026

AMETEK / XANTREX / SORENSEN

Ametek / Xantrex / Sorensen XFR 20-60 Programmable DC Power Supply

Ametek / Xantrex / Sorensen DC Power Supplies. Voltage: 0–20 Vdc, Current: 0–60 A, Current: 22.6 A at 208 VAC.



MODEL

**Ametek / Xantrex /
Sorensen XFR 20-
60**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

XFR 20-60

LISTING

[https://aumictechlabs.c
om/products/xfr-20-60
-3/](https://aumictechlabs.com/products/xfr-20-60-3/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Ametek/Xantrex/Sorensen XFR 20-60 is a 1200 W programmable DC power supply engineered for research, product development, and production testing environments. This single-output unit delivers 0–20 Vdc at 0–60 A with automatic CV/CC mode crossover, backed by soft switching technology that minimizes transients, improves efficiency, and reduces thermal load. The 1U rack-mountable chassis (19-inch standard) supports both benchtop and integrated system configurations, with stackable thermal design eliminating the need for inter-unit ventilation gaps. Technical Specifications Output & Power: Output voltage: 0–20 Vdc Output current: 0–60 A Power output: 1200 W AC input: 190–264 VAC, 1-phase, 47–63 Hz Switching frequency: 78 kHz nominal (156 kHz output ripple) Efficiency: 84% typical at rated output Output Quality: Noise (0–20 MHz): 75 mV Ripple (rms): 9 mV Ripple (peak-to-peak): 500 mA Voltage drift (8 hours): 3 mV

Current drift (8 hours): 30 mA Temperature coefficient: 1.2 mV/°C (voltage), 60 mA/°C (current)
Operating Conditions: Temperature range: 0–50 °C (full power, no derating) Input current: 22.6 A at 208 VAC, 20.5 A at 230 VAC typical

Key Features Soft switching (zero voltage) technology for reduced heat and enhanced reliability Remote sensing with 5 V line loss compensation Analog programming: 0–5 kΩ or 0–10 kΩ resistive inputs; 0–5 V or 0–10 V voltage sources Analog monitoring outputs: 0–5 V or 0–10 V (0–100% span) Dual digital display: simultaneous voltage and current readout Ten-turn front panel controls for voltage and current adjustment Output standby mode (push-button selectable) Setpoint preview capability (voltage, current, or OVP) Over-voltage protection (OVP), adjustable Over-temperature protection (OTP) with thermal shutdown (latching or auto-reset) Parallel and series operation supported for expanded output capability

Typical Applications Research and development, component characterization, system integration testing, production burn-in, and benchtop power delivery requiring tight output regulation and minimal thermal overhead.

Compatibility & Integration 19-inch rack form factor, 1U vertical height. Suitable for both standalone benchtop use and high-density rack deployment without auxiliary cooling requirements between adjacent units.

XFR20 Characteristics / Specifications

PARAMETER	VALUE
Output Voltage	0 to 20 V
Output Current	0 to 60 A
Output Power	1200 W
Line Regulation Voltage	4 mV
Line Regulation Current	8 mA
Load Regulation Voltage	9 mV
Load Regulation Current	17 mA
Meter Accuracy Voltage	0.2 V
Meter Accuracy Current	0.4 A
Output Noise Voltage RMS	5 mV
Output Noise Voltage Peak To Peak 0 To 20 MHz	60 mV
Output Noise Current RMS	85 mA
Drift 8 Hours Voltage	10 mV
Drift 8 Hours Current	30 mA
Temperature Coefficient Voltage	4 mV perCTemperature Coefficient Current: 18 mA perCOVP Adjustment Range: 1 to 22 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

XFR20 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 20 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 20-60. 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	
Specifications	
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Output Voltage	0 to 20 V
Output Current	0 to 60 A
Output Power	1200 W
Line Regulation Voltage	4 mV
Line Regulation Current	8 mA
Load Regulation Voltage	9 mV
Load Regulation Current	17 mA
Meter Accuracy Voltage	0.2 V
Meter Accuracy Current	0.4 A
Output Noise Voltage RMS	5 mV
Output Noise Voltage Peak To Peak 0 To 20 MHz: 60 mV	
Specifications	
PARAMETER	VALUE
Output Noise Current RMS	85 mA
Drift 8 Hours Voltage	10 mV
Drift 8 Hours Current	30 mA
Temperature Coefficient Voltage	4 mV perCTemperature Coefficient Current: 18 mA perCOVP Adjustment Range: 1 to 22 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
Storage Temperature	minus 20 C to 70 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 20-60.
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.