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Data Sheet

August 14, 2026

AMETEK / XANTREX / SORENSEN

Ametek / Xantrex / Sorensen XFR 7.5-140 Programmable DC Power Supply

The Ametek XFR 7.5-140 is a programmable DC power supply offering a wide range of voltage and current output. It is suitable for various testing and research applications. The power supply features remote sensing, overvoltage protection, and constant current/constant voltage operation.

**MODEL****Ametek / Xantrex /
Sorensen XFR 7.5-
140****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****XFR 7.5-140****LISTING**[https://aumictechlabs.c
om/products/xfr-7-5-14
0-3/](https://aumictechlabs.com/products/xfr-7-5-140-3/)

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30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Ametek Xantrex Sorensen XFR 7.5-140 is a 1050 W rated programmable DC power supply engineered for demanding test, research, and production applications requiring precise voltage and current control. This compact 1U rack-mount unit delivers 0–7.5 V and 0–140 A with exceptional output stability, employing zero voltage soft-switching technology to achieve high efficiency and minimal noise. Automatic CV/CC crossover, adjustable overvoltage protection, and remote sensing with up to 5 V line drop compensation ensure reliable operation across diverse load conditions. The supply stacks without inter-unit ventilation requirements, maximizing space efficiency in multi-channel test benches. Technical Specifications Output power: 1050 W rated;

1200 W total Output voltage range: 0–7.5 V Output current range: 0–140 A Output noise (0–20 MHz): 75 mV Output ripple (rms): 9 mV Voltage ripple (peak-to-peak): 500 mA Eight-hour drift: 3.75 mV (voltage), 70 mA (current) Temperature coefficient: 1.5 mV/°C (voltage), 42 mA/°C (current) Program resolution (RS-232): 1.2 mV (voltage), 18.3 mA (current) Operating temperature: 0–50°C without derating Form factor: 19-inch rack mount, 1U height (1.75 inches)Key Features Constant voltage/constant current operation with automatic crossover Adjustable overvoltage protection (5–110% of Vmax range) Ten-turn potentiometers with simultaneous dual-parameter digital display Push-button output standby control and setpoint preview Remote sensing standard; maximum 5 V/line drop compensation Thermal shutdown with latching or auto-reset options Stackable design requires no ventilation spacing between unitsTypical Applications Battery charging and testing, electroplating, component aging, accelerated life testing, power distribution system validation, and laboratory characterization of low-voltage, high-current devices.Compatibility & Integration Front-panel analog programming with optional isolated programming, GPIB, and RS-232 interfaces. RS-232 control provides 16-bit resolution digital programming and readback of actual voltage, current, soft limits, OVP setting, and supply status.

XFR75140 Characteristics / Specifications

PARAMETER	VALUE
Output Voltage	0 to 7.5 V
Output Current	0 to 140 A
Output Power	1050 W
Line Regulation Voltage	2.75 mV
Line Regulation Current	16 mA
Load Regulation Voltage	6.5 mV
Load Regulation Current	33 mA
Meter Accuracy Voltage	0.05 V
Meter Accuracy Current	0.8 A
Output Noise Voltage RMS	5 mV
Output Noise Voltage Peak To Peak 0 To 20 MHz	40 mV
Output Noise Current RMS	175 mA
Drift 8 Hours Voltage	3.8 mV
Drift 8 Hours Current	70 mA
Temperature Coefficient Voltage	1.5 mV perCTemperature Coefficient Current: 42 mA perCOVP Adjustment Range: 0.375 to 8.25 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

XFR75140 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 7.5 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 7.5-140. 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	
PARAMETER	VALUE
Output Voltage	0 to 7.5 V
Output Current	0 to 140 A
Output Power	1050 W
Line Regulation Voltage	2.75 mV
Line Regulation Current	16 mA
Load Regulation Voltage	6.5 mV
Load Regulation Current	33 mA
Meter Accuracy Voltage	0.05 V
Meter Accuracy Current	0.8 A
Output Noise Voltage RMS	5 mV
Output Noise Voltage Peak To Peak 0 To 20 MHz: 40 mV	
Specifications	
PARAMETER	VALUE
Output Noise Current RMS	175 mA
Drift 8 Hours Voltage	3.8 mV
Drift 8 Hours Current	70 mA
Temperature Coefficient Voltage	1.5 mV perCTemperature Coefficient Current: 42 mA perCOVP Adjustment Range: 0.375 to 8.25 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

Notes

Numeric rows from Xantrex/Sorensen XFR Series 1.2 kW electrical specifications table for model XFR 7.5-140.
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.