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Data Sheet

August 14, 2026

AMETEK / XANTREX / SORENSEN

Ametek / Xantrex / Sorensen XTS 7-6 DC Power Supply

The Ametek / Xantrex / Sorensen XTS 7-6 is a DC power supply designed for a variety of applications. It offers reliable and stable DC power, with adjustable voltage and current settings. This power supply is suitable for laboratory testing, component testing, and industrial control systems, providing precise and consistent power delivery.

**MODEL****Ametek / Xantrex /
Sorensen XTS 7-6****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****XTS 7-6****LISTING**[https://aumictechlabs.c
om/products/xts-7-6-3/](https://aumictechlabs.com/products/xts-7-6-3/)

NIST-traceable cal

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NAICS 423690 • 811210 • 541380

This unit

The Ametek Xantrex Sorensen XTS 7-6 is a 42 W programmable linear DC power supply engineered for benchtop and system integration. This single-output unit delivers 0–7 Vdc at 0–6 A with exceptional stability, low noise, and fast transient response. It operates in both constant voltage and constant current modes with automatic crossover and front-panel mode indication. Technical Specifications Output Power & Range 42 W total output power Voltage: 0–7 Vdc Current: 0–6 A Regulation & Performance Line regulation (voltage): < 2.7 mV Line regulation (current): < 6.25 mA Load regulation (voltage): < 2.7 mV Load regulation (current): < 6.25 mA Transient response: 100 μ s typical at $\pm 50\%$ load change Ripple and noise (voltage): < 1.0 mV RMS (20 Hz–20 MHz) Ripple and noise (current): < 2 mA RMS (20 Hz–20 MHz) Drift (8 hours): Max 0.02% of V_{max} (voltage), 0.03% of I_{max} (current) No overshoot at turn-on, turn-off, or power

failure Input 115 Vac $\pm 10\%$, 57–63 Hz, single phase

Key Features CV/CC automatic crossover with mode indication Current limiting and overtemperature protection High-resolution 10-turn potentiometers for precise voltage control Simultaneous digital displays (voltage and current) with analog bar graphs Remote sense standard (0.5 V per line) Optional internal analog programming with overvoltage protection 16-bit GPIB (IEEE 488) and RS-232 control optional LabVIEW and LabWindows driver support Compact quarter-rack package: 134.7 mm H $\times$ 109.2 mm W $\times$ 297 mm D; 7.7 lb

Typical Applications Laboratory testing, component characterization, and industrial control systems benefit from the unit's stable output and fast transient response. Multi-unit configurations support dual, triple, or quad-output benchtop setups and rack-mounted systems.

Compatibility & Integration Optional M5A and M11 interface cards enable isolated control and 10-turn current potentiometer operation. Front and rear output connectors support flexible integration into larger test systems.

XTS7 Characteristics / Specifications

PARAMETER	VALUE
Output Voltage	0 to 7 V
Output Current	0 to 6 A
Output Power	42 W
Line Regulation Voltage	2.7 mV
Line Regulation Current	85 mA
Load Regulation Voltage	2.7 mV
Load Regulation Current	0.85 mA
Output Noise Voltage RMS 20 Hz To 20 MHz	less than 1 mVrms
Output Noise Current RMS	less than 2 mArms
Meter Accuracy Voltage	0.08 V
Meter Accuracy Current	0.07 A
Drift 8 Hours Voltage	1.4 mV
Drift 8 Hours Current	1.8 mA
Temperature Coefficient Voltage	1.05 mV perCTemperature Coefficient Current: 1.2 mA perCProgram Accuracy Voltage With Interface: 10 mV plus 0.1 percent
Program Accuracy Current With Interface	110 mA plus 0.15 percent
Program Accuracy OVP With Interface	70 mV
Readback Accuracy Voltage With Interface	10 mV plus 0.15 percent
Readback Accuracy Current With Interface	110 mA plus 0.15 percent
Voltage Mode Transient Response	less than 100 us to 0.05 percent band for plus or minus 50 percent load change
AC Input Standard	115 Vac plus or minus 10 percent 57 to 63 Hz
Operating Temperature Full Rating	0 C to 30 C
Size HxWxD	134.7 mm x 109.2 mm x 297 mm

PARAMETER	VALUE
Weight Approximate	3.5 kg
Operating temperature	Full Rating: 0 C to 30 C

XTS7 Specifications

PARAMETER	VALUE
Key Features	Linear regulated low noise output
Automatic CV/CC crossover with mode indication	Front and rear outputs with remote sense 0.5 V per line
Technical Specifications	Output Voltage: 0 to 7 V

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Full Rating: 0 C to 30 C
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Operating Temperature Full Rating	0 C to 30 C
Size HxWxD	134.7 mm x 109.2 mm x 297 mm
Weight Approximate	3.5 kg Notes Numeric rows from Sorensen XT Series 42 to 60 W datasheet column for XT 7-6. XTS designates the single unit benchtop/system package of that model.

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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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.