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Data Sheet

August 14, 2026

AMETEK / ELGAR / CALIFORNIA INSTRUMENTS

Ametek / Elgar / California Instruments 751TC AC Power Source

Remote Path: programmable when used with programmer oscillators Rack Height Class: T series rack AC source Short Circuit Recovery: automatic reset when overload removed From Elgar 751TC T-series AC power source specification listings. Installed oscillator (for example 800T-40/5K) sets the binding frequency span and programming interface. Rack Height Class: T series rack AC source Short Circuit Recovery: automatic reset when overload removed From Elgar 751TC T-series AC power source specification listings. Installed oscillator (for example 800T-40/5K) sets the binding frequency span and programming interface.

**MODEL****Ametek / Elgar /
California
Instruments 751TC****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****751TC****LISTING**[https://aumictechlabs.c
om/products/751tc-3/](https://aumictechlabs.com/products/751tc-3/)

NIST-traceable cal

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NAICS 423690 • 811210 • 541380

This unit

The Ametek/Elgar/California Instruments 751TC is a 750 VA single-phase AC power source engineered for precise simulation of AC power conditions across research, development, manufacturing, and test environments. It delivers programmable voltage and frequency with low distortion and tight load regulation, making it suitable for component characterization, equipment validation, and power quality studies requiring accurate waveform generation. Technical Specifications Output Power: 750 VA / 750 W at 110–130 V RMS from unity to ± 0.7 power factor

Output Voltage: 0–130 V RMS or 0–260 V RMS (rear panel selectable); 0–270 VAC; 0–350.0 V L-N; 0–700 V L-L Frequency Range: 45 Hz to 5 kHz at full power; 20 Hz to 20 kHz extended; DC to 40–5 kHz capability Frequency Accuracy: 0.01 Hz Frequency Response: ± 0.5 dB from 45 Hz to 5 kHz Total Harmonic Distortion: $<0.30\%$ (200–600 Hz); $<0.5\%$ (45–5 kHz); 0.25% at 100 Hz Load Regulation: $\pm 1\%$ over 45 Hz to 5 kHz at unity power factor; $\pm 0.025\%$ of full range with 0.1% control resolution Voltage Programming Resolution: 0.1% Stability: $\pm 0.1\%$ Accuracy: 0.1% of range AC Noise: 80 dB below full output (input shorted); 60 dB below full output at rated power AC Input: 115 VAC 25 A CB or 208 VAC 15 A CB; 187–264 V RMS; 48–65 Hz; 2100 W maximum; <8.5 A RMS @ 115 V, <4.4 A RMS @ 230 V; 0.97 power factor typical Efficiency: 70% Protection: Automatic overload and short-circuit protection with auto-reset Dimensions: 7 in H $\times$ 19 in W $\times$ 21 in D Shipping Weight: 100 lbsKey Features GPIB (IEEE 488.2-1987), RS232, USB (460800 baud), and LAN (LXI) interfaces for full programmability Selectable output voltage ranges via rear panel configuration Extended frequency capability from DC through 20 kHz Sub-0.5% THD performance across audio and power frequency bands Load regulation compensation for line voltage, frequency, and load variationTypical Applications Power supply design and validation testing Equipment EMC and power quality assessment Component stress and reliability evaluation under programmed AC conditions Frequency response and transient analysisCompatibility & Integration Full remote control and automated test sequences via GPIB, USB, RS232, or LXI. Optional GPIB on select configurations.

751TC Characteristics / Specifications

PARAMETER	VALUE
Output Power	750 VA
Output Voltage Band	110 to 130 V rms at rated VA
Alternate Voltage	0 to 260 V rms with ranging
Output Frequency	45 Hz to 5 kHz
Power Factor	unity to plus or minus 0.7 at rated VA
Protection	overload and short circuit with automatic reset
Phase	single phase expandable to multi phase
System Power	up to 2250 VA with multiple 751TC units
Oscillator Example	800T 40/5K Wien bridge 40 Hz to 5 kHz
Form Factor	rack AC source
Instrument Family	ElgarTseries
Manufacturer	AMETEK Elgar California Instruments lineage
Input Power	AC mains powered source
Applications Class	400 Hz and wideband AC test
Operating Use	lab and ATE AC power
Voltage Control	oscillator plug in determines programming
Frequency Control	oscillator plug in 40 Hz to 5 kHz class
Current Protection	automatic reset when overload removed
Output Type	isolated AC source class
Cooling	forced air classTseries
Remote Path	programmable when used with programmer oscillators
Rack Height Class	T series rack AC source
Short Circuit Recovery	automatic reset when overload removed

751TC Specifications

PARAMETER	VALUE
AMETEK Elgar 751TC AC Power Source	Overview
Applications	Avionics and lab AC power from 45 Hz to 5 kHz, including 400 Hz equipment test.
Key Features	750 VA continuous
Automatic overload reset	Pairs to 2250 VA three phase
Technical Specifications	Output Power: 750 VA

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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Notes	
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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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.