

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 1, 2026

ELGAR

Elgar CW2501M Continuous Wave AC Power Source

Elgar CW2501M Continuous Wave AC Power Source The Elgar (Ametek Programmable Power) CW2501M is a 2500 VA single-phase ContinuousWave (CW) series AC power source with manual front-panel control. The CW-M (manual) family complements the CW-P programmable models that add IEEE-488.2 and RS-232. The CW2501M is a 3U (5.25 in) chassis with rear-panel output connections, switch-mode topology, and power-factor-corrected AC input. Dual bright 4-digit displays show voltage and current or frequency. Output ranges are user-selectable 0-135 VRMS or 0-270 VRMS over 45-500 Hz. The Elgar (Ametek Programmable Power) CW2501M is a 2500 VA single-phase ContinuousWave (CW) series AC power source with manual front-panel control. The CW-M (manual) family complements the CW-P programmable models that add IEEE-488.2 and RS-232. The CW2501M is a 3U (5.25 in) chassis with rear-panel output connections, switch-mode topology, and power-factor-corrected AC input. Dual bright 4-digit displays show voltage and current or frequency. Output ranges are user-selectable 0-135 VRMS or 0-270 VRMS over 45-500 Hz. Avionics and 400 Hz equipment test; product burn-in and AC stimulus; laboratory AC power substitution; paralleled multi-unit and multi-phase systems with Elgar multi-unit cables.

No photo

MODEL

Elgar CW2501M

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

CW2501M

LISTING

**Off-catalog — OEM dat
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

Features & description

From manufacturer datasheet

Features

- 2500 VA single-phase AC output
- Manual control (CW-M); not the programmable CW2501P
- Dual ranges 0-135 VRMS / 0-270 VRMS
- Frequency 45-500 Hz standard
- PFC input; high power factor
- Load and line regulation about +/-0.1% of full scale
- THD about 0.25% typical below 100 Hz
- Field parallel and multi-phase configurable with accessories
- Bench or rackmount (3U)

CW2501M Characteristics / Specifications

PARAMETER	VALUE
Model	CW2501M
Manufacturer	Elgar / Ametek Programmable Power
Series	ContinuousWave (CW) AC Power Sources
Instrument Type	Manual single-phase AC power source
Output Power	2500 VA
Output Voltage Ranges	0 to 135 VRMS or 0 to 270 VRMS (user selectable)
Output Current	18.6 ARMS (135 V range); 9.3 ARMS (270 V range)
Frequency Range	45 to 500 Hz (1000 Hz option is CW-P only)
Voltage Resolution	0.1 VRMS
Frequency Resolution	0.1 Hz
Load Regulation	+/-0.1% of full scale (full resistive load to no load)
Line Regulation	+/-0.1% of full scale for +/-10% line change
THD	0.25% typical below 100 Hz; add about 0.5%/100 Hz above 100 Hz
AC Noise	less than 100 mVRMS typical (CW 2501)
Remote Sense	compensation up to 5 VRMS total lead drop
AC Input (CW2501M)	180 to 264 VAC; about 19.5 ARMS max; 47-63 Hz; PF greater than 0.99 typical; efficiency greater than 73% typical
Form Factor	3U / 5.25 in; rear panel outputs; weight about 39 kg class

CW2501M Specifications

PARAMETER	VALUE
Elgar CW2501M Continuous Wave AC Power Source	Overview
Key Features	- 2500 VA single-phase AC output
Technical Specifications	Model: CW2501M

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
Model	CW2501M
Manufacturer	Elgar / Ametek Programmable Power
Series	ContinuousWave (CW) AC Power Sources
Instrument Type	Manual single-phase AC power source
Output Power	2500 VA
Output Voltage Ranges	0 to 135 VRMS or 0 to 270 VRMS (user selectable)
Output Current	18.6 ARMS (135 V range); 9.3 ARMS (270 V range)
Frequency Range	45 to 500 Hz (1000 Hz option is CW-P only)
Voltage Resolution	0.1 VRMS
Frequency Resolution	0.1 Hz
Load Regulation	+/-0.1% of full scale (full resistive load to no load)
Line Regulation	+/-0.1% of full scale for +/-10% line change
THD	0.25% typical below 100 Hz; add about 0.5%/100 Hz above 100 Hz
AC Noise	less than 100 mVRMS typical (CW 2501)
Remote Sense	compensation up to 5 VRMS total lead drop
AC Input (CW2501M)	180 to 264 VAC; about 19.5 ARMS max; 47-63 Hz; PF greater than 0.99 typical; efficiency greater than 73% typical
Form Factor	3U / 5.25 in; rear panel outputs; weight about 39 kg class

Options (CW-M): L locking shafts; S Sync In/Out

Standard Operating Conditions

Select the correct 135/270 V range before connecting the load. Provide adequate ventilation. Use rated AC input wiring for 2500 VA. Follow Elgar procedures for parallel/multi-phase cabling.

Operational Notes

User spelling "Continuos" is Continuous Wave. CW2501M is manual; do not quote GPIB programmability unless the unit is actuallyaCW2501P. Confirm faceplateMvs P.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

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>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 1, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.