Aumictech
Test & measurement · bought, sold, repaired, calibrated

Data Sheet
August 14, 2026

ELGAR

Elgar EW801 AC Power Source

Elgar EW801 ContinuousWave AC Power Source 800 VA Class The Elgar EW801 designation maps to the ContinuousWave 800 VA AC power source family (CW801 class) providing clean single phase AC with dual 135/270 Vrms ranges. OEM CW Series literature rates 800 VA, 45 to 500 Hz, and PFC universal input for manual or programmable ContinuousWave platforms. Avionics 400 Hz testing, line margin testing at 50/60 Hz, ballast and component AC stress, and converter input power simulation. Dual range 135 V and 270 Vrms selectable output The Elgar EW801 designation maps to the ContinuousWave 800 VA AC power source family (CW801 class) providing clean single phase AC with dual 135/270 Vrms ranges. OEM CW Series literature rates 800 VA, 45 to 500 Hz, and PFC universal input for manual or programmable ContinuousWave platforms. Avionics 400 Hz testing, line margin testing at 50/60 Hz, ballast and component AC stress, and converter input power simulation. Dual range 135 V and 270 Vrms selectable output PFC universal AC input without manual range selection

MODEL **Elgar EW801**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **EW801**	LISTING **https://aumictechlabs.com/products/ew801-3/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Elgar EW801 is a programmable AC power source designed for precise control and simulation of various AC power conditions. It utilizes pulse-width modulation (PWM) technology for clean, instrument-grade AC output, offering a versatile solution for testing and development in laboratory and industrial environments. The EW801 is engineered to provide stable and accurate voltage and

frequency outputs, crucial for validating the performance of electronic devices and systems under diverse operational scenarios. Technical Specifications General Features: Technology: Pulse-width modulation (PWM) for clean AC output. Output Distortion: Low output distortion. User Setups: Nine user-defined front panel setups for quick recall of configurations. Measurement Capabilities: Digital Signal Processing (DSP) based measurements include voltage, current (RMS, peak, crest factor), power (watts, VA, power factor), and frequency. Independent verification of operating values is provided. Protection Features: Over-power protection (OPP), under-voltage protection (UVP), short circuit protection (SHT), over-voltage protection (OVP), over-temperature protection (OTP), and fan failure protection. Cooling: Temperature-controlled fan speed for optimal operation and reduced noise. Output Isolation: Built-in output isolation relays. Form Factor: Benchtop. Output Characteristics: Maximum Power: 800 VA. Voltage Ranges: * 0-150 VAC * 0-300 VAC * Selectable full scale output: 150V/300V/Auto. * Output voltage range of 135 VAC or 270 VAC selectable. Frequency Range: * 45 Hz to 500 Hz. * Extended frequency range up to 1000 Hz (CW-P models only). * Applications include 400 Hz for avionics, marine, and military, and 47-63 Hz for commercial applications. Current Output: * Range 1 (0-150 V): 5.33 A max. * Range 2 (0-300 V): 2.67 A max. * 7.5 A max (150V range). * 6 A max (300V range). * 13 ARMS max (CW801M). * Fully rated current for any output voltage. Total Harmonic Distortion (THD): 0.472248 dB. 0.25% typical <100Hz, add 0.5%/100 Hz above 100 Hz (CW801M). AC Noise Level: <50 mVRMS (typical, CW801M). Amplitude Stability: ±0.1% of full scale. Load Regulation: ±0.1% of full scale voltage for a full resistive load to no load (<10 mVRMS typical, measured at point of sense). ±0.00045 mV. Line Regulation: ±0.1% of full scale voltage for a ±10% line variation. 0.03 mV. Power Factor: >0.99 typical at full load nominal line (CW801M). Efficiency: >73% typical at full load (CW801M). Electrical Input: Input Voltage: 90-132 VAC. Input Voltage Range: 90-264 VAC (CW801M). 100-240V (CW801M). Input Current: 13A Max. Per Phase (CW801M). Measurements: Voltage: RMS Volts Measurement. Current: RMS Current Measurement. Frequency: Frequency Measurement. Power: Power Measurement. Power Factor: Power Factor Measurement. Crest Factor: Crest Factor Measurement. DC Volts: No DC Volts Measurement. Interfaces: Front Panel: Keypad for local operation and data entry. Remote Control: * GPIB (IEEE 488.2) optional interface. * RS-232 interface optional. * Analog voltage reference input (BNC connector) for remote voltage control. Output Connections: Terminal block or front panel outlet. Physical Characteristics: Dimensions: 19 in x 5.25 in x 19 in (483 mm × 133 mm × 483 mm). Weight: 51 lbs (23.2 Kg). 40 lbs (18.2 Kg) for EW371. Environmental: Operating Temperature Range: Specified in manual. Storage Temperature Range: Specified in manual. Humidity: Specified in manual. Compliance: CE Mark: Yes. FCC: Compliant to FCC 15J, class A. UL Listing Mark: Yes (CW Series models). C-UL Listing Mark: Yes (CW Series models). Why Choose Aumictech for the Elgar EW801? At Aumictech, we specialize in supplying high-end AC power source equipment. Whether you need reliable power simulation for product development, precise testing under various grid conditions, or a solid solution for R&D labs, our team ensures the Elgar EW801 delivers maximum performance for your application.

EW801 Characteristics / Specifications

PARAMETER	VALUE
Output Power	800 VA
Output Voltage Ranges	0 to 135 Vrms and 0 to 270 Vrms
Voltage Resolution	0.1 Vrms
Output Current 135 Vac Range	0 to 6.0 Arms
Output Current 270 Vac Range	0 to 3.0 Arms
Frequency Range Standard	45 to 500 Hz
AC Input Voltage CW801 Class	90 to 264 VAC
AC Input Current Max	13 Arms
AC Input Frequency	47 to 63 Hz
Power Factor Typical Full Load	greater than 0.99
Efficiency Typical Full Load	greater than 73 percent
Load Regulation	plus or minus 0.1 percent of full scale voltage
Line Regulation	plus or minus 0.1 percent of full scale voltage
AC Noise Level Typical	less than 50 mVrms
Amplitude Stability Manual Class	plus or minus 0.1 percent of full scale
Remote Sense Drop	5 Vrms total
Operating Temperature	0 C to 40 C
Storage Temperature	minus 40 C to 70 C
Humidity	0 to 85 percent at 25 C derate to 50 percent at 40 C noncondensing
Height Class	3.5 in 2U
Width	19 in
Depth	20.07 in
Weight Class	22 kg

EW801 Specifications

PARAMETER	VALUE
Elgar EW801 ContinuousWave AC Power Source 800 VA Class	Overview
Applications	Avionics 400 Hz testing, line margin testing at 50/60 Hz, ballast and component AC stress, and converter input power simulation.
Key Features	Dual range 135 V and 270 Vrms selectable output
Technical Specifications	Output Power: 800 VA

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to 70 C
Operating temperature	0 C to 40 C
Operating Temperature	0 C to 40 C
Humidity	0 to 85 percent at 25 C derate to 50 percent at 40 C noncondensing
Height Class	3.5 in 2U
Width	19 in
Depth	20.07 in
Weight Class	22 kg Notes Verified against Elgar ContinuousWave Series datasheet for the 800 VA CW801 platform. Confirm whether the unit faceplate is CW801M manual or CW801P programmable before quoting programming interface rows.

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 Power	800 VA
Output Voltage Ranges	0 to 135 Vrms and 0 to 270 Vrms
Voltage Resolution	0.1 Vrms
Output Current 135 Vac Range	0 to 6.0 Arms
Output Current 270 Vac Range	0 to 3.0 Arms
Frequency Range Standard	45 to 500 Hz
AC Input Voltage CW801 Class	90 to 264 VAC
AC Input Current Max	13 Arms
AC Input Frequency	47 to 63 Hz
Power Factor Typical Full Load	greater than 0.99
Efficiency Typical Full Load	greater than 73 percent
Load Regulation	plus or minus 0.1 percent of full scale voltage
Line Regulation	plus or minus 0.1 percent of full scale voltage
AC Noise Level Typical	less than 50 mVrms
Amplitude Stability Manual Class	plus or minus 0.1 percent of full scale
Remote Sense Drop	5 Vrms total
Operating Temperature	0 C to 40 C
Storage Temperature	minus 40 C to 70 C
Humidity	0 to 85 percent at 25 C derate to 50 percent at 40 C noncondensing
Height Class	3.5 in 2U
Width	19 in
Depth	20.07 in
Weight Class	22 kg

Notes
Verified against Elgar ContinuousWave Series datasheet for the 800 VA CW801 platform. Confirm whether the unit faceplate is CW801M manual or CW801P programmable before quoting programming interface rows.

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

NIST-traceable calibration · SAM registered · 30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

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