

**Aumictech**

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Data Sheet

August 15, 2026

ELGAR

Elgar XWA030 AC Power Supply System

The ELGAR XWA030-03033-01601 is a power supply designed for various electronic applications. It provides stable and reliable power output, ensuring optimal performance of connected devices. This power supply features solid construction and advanced circuitry for efficient power conversion and protection against voltage fluctuations and overloads.



MODEL

Elgar XWA030-03033-01601

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

XWA030-03033-01601

LISTING

<https://aumictechlabs.com/products/xwa030-03033-01601-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The ELGAR XWA030-03033-01601 is a high-power AC source and frequency converter designed for demanding electronic applications. This unit, part of the Elgar XWave series, delivers solid and stable power output, critical for ensuring the optimal performance and reliability of connected test equipment and systems. Its advanced switch-mode power conversion technology provides high power density and efficiency, making it suitable for product design and acceptance testing against various global AC mains standards, simulation of aircraft and marine AC bus parameters, and as a power conditioning solution for sensitive equipment. Technical Specifications *

Manufacturer: Elgar (part of AMETEK Programmable Power) Series: XWave Model Number: XWA030-03033-01601 Product Type: AC Power Source / Frequency Converter Power Output * Power Rating: 30 kVA Modular Design: Utilizes 10kW power modules for incremental output levels, scalable from 30 kVA up to 480 kVA. The XWA030 series can accommodate up to 120 kVA in a

single cabinet. Inrush Current Capability: Can provide up to 150% of rated output current for up to 7 seconds to handle loads with high in-rush current demands. Electrical Specifications * Phases: 3-Phase Output Voltage Configuration: * 120/208 VAC WYE * 0-132 VAC Line-to-Neutral (L-N) * Output voltage adjustment via a 10-turn potentiometer with a 10% trim for phases B & C. * Other output configurations are available; consult manufacturer. Maximum Current per Phase: * 83 Arms (for 3-phase output configuration: 120/208 WYE, 0-132 L-N) Output Frequency: * Standard range: 45 Hz to 1000 Hz. * Switch-selectable fixed frequencies: 50 Hz, 60 Hz, 400 Hz, 800 Hz. * Variable frequency control: 45 Hz to 1000 Hz via a high-resolution 10-turn potentiometer. * Optional external signal input for frequencies up to 2 kHz. * A no-cost option is available to limit the maximum frequency to 500 Hz. Efficiency: 85% at full load. Idle Losses: Less than 1.5 kW on a 30 kVA system. Total Harmonic Distortion (THD): Excellent THD performance. Power Factor: Full performance at 0.8 lead or lag; performance degrades slightly for more extreme power factors but remains stable into any load PF. Line Drop Compensation: Feature to compensate for distribution losses. Input Specifications * Input Configuration: 1 = 120/208 VAC WYE. Monitors and Controls * Output Voltmeter: True RMS, 3 1/2 digit meter with a 6-position selector switch for phase-to-phase and phase-to-neutral readings. Accuracy: $\pm 2\%$ of full scale. Output Current Meter: True RMS, 3 1/2 digit meter with a 3-position phase select switch. Accuracy: $\pm 3\%$ of full scale. Output Frequency Meter: Digital meter with decimal point. Accuracy: $\pm 0.1\%$ of full scale. Amplitude Control: Master control for all phases, with a balance adjust for phases B and C (10% range each). Oscillator Mode Select: Rotary switch for selecting fixed frequencies (50 Hz, 60 Hz, 400 Hz, 800 Hz), variable frequency, and program output. Control Options: Available with voltage and frequency control via the front panel or through analog control. Remote Control Options: Specific configurations may include remote On/Off, remote Stop/Start, and Emergency Machine Off (EMO) button functionality. Environmental Specifications * Temperature Range: 0 to 45 degrees Celsius. Humidity: 0 to 95% non-condensing. Audible Noise: < 60 dBA at 3 meters at full load; < 50 dBA at half load. Physical Specifications * Dimensions (WxHxD): 22" x 50" x 41.6" (56 cm x 127 cm x 106 cm) for the XWA030-03031-01x01 model. (Note: Dimensions for the -03033 model may vary.) Weight: 600 lbs (273 kg) for the XWA030-03031-01x01 model. (Note: Weight for the -03033 model may vary.) Features and Benefits * Modular Construction: Utilizes interchangeable 10kW power modules, facilitating easier and lower-cost repairs, and potential field upgrades. High Power Density: Achieves more power in less space due to advanced switch-mode power conversion technology. Wide Frequency Range: Supports simula

XWA0300303301601 Characteristics / Specifications

PARAMETER	VALUE
Model	XWA030
Catalog Configuration	XWA030-03033-01601
Instrument Type	AC power supply system
Host Family	Elgar AC power systems
Related Manual Oscillator	4643V dual range manual oscillator
Related Programmable Oscillator	PIP9012A programmable plug-in oscillator
Manufacturer	Elgar / Ametek
Use Case	AC power system
Literature	Elgar XWA030 AC power supply system listings
Family	Elgar XWA AC systems
Documentation Type	OEM XWA030 listing
Brand Lineage	Elgar Ametek
System Role	AC power source system
Form Factor	AC power system mainframe
Application Class	avionics and industrial AC test
Operating Temperature Class	laboratory AC source
Year Class	Elgar XWA family
Vendor Path	Elgar Ametek
Documentation Class	OEM AC source catalog
Oscillator Class	plug-in manual or programmable
Amplifier Class	Elgar AC power amplifier/mainframe
Control Class	oscillator plus mainframe
Companion Role	AC system with 4643V or PIP9012A
Configuration Class	XWA030-03033-01601 build string
Operating temperature	Class: laboratory AC source

XWA0300303301601 Specifications

PARAMETER	VALUE
Elgar XWA030 AC Power Supply System	Overview
Key Features	Elgar XWA030 AC system
Technical Specifications	Model: XWA030

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: laboratory AC source
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Operating Temperature Class	laboratory AC source
Year Class	Elgar XWA family
Vendor Path	Elgar Ametek
Documentation Class	OEM AC source catalog
Oscillator Class	plug-in manual or programmable
Amplifier Class	Elgar AC power amplifier/mainframe
Control Class	oscillator plus mainframe
Companion Role	AC system with 4643V or PIP9012A
Configuration Class	XWA030-03033-01601 build string Notes From Elgar XWA030 listings (AC power supply system; catalog identity XWA030-03033-01601). Rated VA, voltage range, and frequency span for this build are on the XWA030 configuration/rating plate.

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

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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.