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Data Sheet

August 15, 2026

COMPACT POWER

Compact Power MAC-02H AC Power Controller

The Compact Power MAC-02H is a solid industrial automation component designed for efficient power management in demanding applications. Its compact design allows for easy integration into existing systems, providing reliable performance and enhanced control. Ideal for optimizing power distribution and ensuring operational stability in various industrial settings.



MODEL

**Compact Power
MAC-02H**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MAC-02H

LISTING

<https://aumictechlabs.com/products/mac-02h-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Compact Power MAC-02H is an AC Power Source and Frequency Converter designed for industrial automation, offering adjustable voltage and frequency outputs. This unit has a solid solution for applications requiring stable and precise power delivery, with a focus on reliability and operational efficiency in demanding environments. Its design emphasizes ease of integration and consistent performance for power management tasks. Technical Specifications * Product Type: AC Power Source / Frequency Converter Manufacturer: Compact Power Company Model: MAC-02H Series: Titan Series Power Output: 500 VA Output Voltage: 0 to 130 Vrms or 0 to 260 Vrms (selectable via front panel toggle switch) Output Current: 4 Amps (at 130V), 2 Amps (at 260V) Output Frequency Range: 45 Hz to 15 kHz * Derates to 100 Vrms maximum from 15 kHz to 20 kHz for approximately 50% of specified VA level. * Not recommended for high power use below 45

Hz. Harmonic Distortion: * < 1% from 45 Hz to 3 kHz (for linear, resistive load) * < 3% from 3 kHz to 20 kHz (for linear, resistive load) Output Noise: 60 dB below full output at full rated power output Power Factor: Stable, full output voltage and current without derating into any reactive load with power factor from unity to zero, leading or lagging. Line Regulation: $\pm 0.05\%$ of full output for $\pm 10\%$ line change. Power Transfer Efficiency: 70% to 82% typical Input Voltage: 105 to 135 Vrms, 47 to 63 Hz, single phase Line Current: Recommended service amperage capacity is 11 amps Inrush Current: Limited to a safe level by internal soft-start power supply. Electrical Characteristics * AC Input: * Voltage Range: 105 - 135 Vrms * Frequency Range: 47 - 63 Hz * Phase: Single phase AC Output: * Voltage Range: 0 - 130 Vrms / 0 - 260 Vrms (selectable) * Frequency Range: 45 Hz - 15 kHz * Current Rating (Max): 4A @ 130V, 2A @ 260V * Power Rating: 500 VA Isolation: Outputs are completely isolated and floating with 1500 VAC isolation to ground. Interfaces * Line Interface: 6.5 foot line cord with molded plug NEMA #5-15P Output Interface: * Front Panel: Five-way color-coded binding posts. * Front Panel Receptacles: Standard NEMA #5-15R (0-130 Vrms) or NEMA #6-15R (0-260Vrms) receptacles. * Rear Panel: Terminal block. External Control/Input: * Can accept any waveform externally (0 to 1.1 Vrms for full scale output) at BNC input connector on MOS-01/-01A or EIM-01. * Requires plug-in oscillator module (e.g., MOS-01, MOS-01A/B) or External Input Module (EIM-01) for signal input and control. Physical Characteristics * Dimensions: Not specified in available documentation. Weight: Approximately 37 lbs. Cooling: Whisper quiet, left to right, rear chassis forced-air cooling. Overtemp shutdown if air is blocked. Operating Humidity Range: 0% to 95% non-condensing Finish: Gold iridite-plated steel main chassis. Front panel is high-durability satin beige with black lettering. Controls and Indicators * Illuminated Power ON/OFF rocker switch AC line circuit breakers Output Range 130V/260V toggle switch Output Enable ON/OFF toggle switch Caution High Voltage panel light Full digital panel-meter monitoring of frequency, voltage and current (with MOS-01/-01A oscillator plug-in). Compatibility * Oscillator Plug-ins: Compatible with Compact Power Company's MOS-01, MOS-01A, MOS-01B, and EIM-01 plug-in modules for control and monitoring. External Transformers: Other output voltage ranges can be obtained using accessory T-1005 or T-1007 external transformers. Multiple Unit Operation: Multiple MAC-01S or MAC-01SH "S" suffix units can be tied together in series for up to 6KVA output. Consult factory for greater than 6KVA systems. Why Choose Aumictech for Compact Power MAC-02H? At Aumictech, we specialize in supplying high-end AC power source and frequency converter equipment. Whether you need precise voltage and frequency control, solid power management for demanding applications, or reliable operational stability, our team ensures the Compact Power MAC-02H

MAC02H Characteristics / Specifications

PARAMETER	VALUE
Model	MAC-02H
Instrument Type	AC power source / frequency converter
Output Voltage Ranges	0 to 130 Vrms or 0 to 260 Vrms front panel selected
Output Isolation	1500 Vac to ground, floating
Continuous Rms Current 130 V	4.0 A, 45 Hz to 15 kHz, 100 percent conduction
Peak Repetitive 400 Ms	7.2 A, 45 Hz to 8 kHz (180 percent)
Nonlinear Peak Continuous	12.0 A, 45 Hz to 1 kHz (300 percent)
Peak Transient 10 Us	13.0 A (325 percent)
Current At 260 V Scale	half of 130 V scale values
Line Regulation	plus or minus 0.05 percent of full output for plus or minus 10 percent line
Load Regulation Low Band	0.1 percent at 125 Vrms, 0 to I _{max} , 45 Hz to 5 kHz
Load Regulation High Band	1 percent at 125 Vrms, 0 to I _{max} , 5 kHz to 10 kHz
Load Regulation Low Voltage	1 percent at 10 Vrms, 0 to I _{max} , 45 Hz to 1 kHz
Frequency Range Full	45 Hz to 15 kHz; derate to 100 Vrms max 15 kHz to 20 kHz at about 50 percent VA
Harmonic Distortion	less than 1 percent 45 Hz to 3 kHz; less than 3 percent 3 kHz to 20 kHz linear resistive
Output Noise	60 dB below full output at full rated power
Line Input	105 to 135 Vrms, 47 to 63 Hz, single phase
Service Current	11 A recommended for MAC-02 class
Efficiency	70 to 82 percent typical
External Drive	0 to 1.1 Vrms for full scale via MOS-01/EIM-01
Operating Temperature	0 C to 50 C
Storage Temperature	minus 55 C to plus 85 C
Humidity	0 to 95 percent RH noncondensing
Dimensions	5.25 × 19 × 13.5 inch (3U rack)

PARAMETER	VALUE
Mass	37 lb
Manufacturer	Compact Power Company
Literature	Compact Power MAC-01/02/03 Titan AC source pages including MAC-02H current table
Family	Compact Power Titan MAC AC sources
Form Factor	3U rack AC source
System Role	programmable AC source / frequency converter
Crest Factor Note	Amps peak divided by amps rms as stated on the OEM table
Output Receptacles	NEMA 5-15R (0-130 Vrms) and NEMA 6-15R (0-260 Vrms) plus binding posts and rear terminal block

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 55 C to plus 85 C
Operating temperature	0 C to 50 C
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Humidity	0 to 95 percent RH noncondensing
Dimensions	5.25 × 19 × 13.5 inch (3U rack)
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Family	Compact Power Titan MAC AC sources
Form Factor	3U rack AC source
System Role	programmable AC source / frequency converter
Crest Factor Note	Amps peak divided by amps rms as stated on the OEM table
Output Receptacles	NEMA 5-15R (0-130 Vrms) and NEMA 6-15R (0-260 Vrms) plus binding posts and rear terminal block Notes Numeric rows from Compact Power MAC-01/02/03 documentation (MAC-02H 4.0/7.2/12.0/13.0 A table, 0 to 130/260 Vrms, 1500 Vac isolation, regulation and distortion, 3U 37 lb). Oscillator plug-in details are on the MOS-01 data sheet.

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	
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Instrument Type	AC power source / frequency converter
Output Voltage Ranges	0 to 130 Vrms or 0 to 260 Vrms front panel selected
Output Isolation	1500 Vac to ground, floating
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Peak Transient 10 Us	13.0 A (325 percent)
Current At 260 V Scale	half of 130 V scale values
Line Regulation	plus or minus 0.05 percent of full output for plus or minus 10 percent line
Load Regulation Low Band	0.1 percent at 125 Vrms, 0 to Imax, 45 Hz to 5 kHz
Load Regulation High Band	1 percent at 125 Vrms, 0 to Imax, 5 kHz to 10 kHz
Load Regulation Low Voltage	1 percent at 10 Vrms, 0 to Imax, 45 Hz to 1 kHz
Frequency Range Full	45 Hz to 15 kHz; derate to 100 Vrms max 15 kHz to 20 kHz at about 50 percent VA
Harmonic Distortion	less than 1 percent 45 Hz to 3 kHz; less than 3 percent 3 kHz to 20 kHz linear resistive
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Service Current	11 A recommended for MAC-02 class
Efficiency	70 to 82 percent typical
External Drive	0 to 1.1 Vrms for full scale via MOS-01/EIM-01
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Humidity	0 to 95 percent RH noncondensing
Dimensions	5.25 x 19 x 13.5 inch (3U rack)

PARAMETER	VALUE
Mass	37 lb
Manufacturer	Compact Power Company
Literature	Compact Power MAC-01/02/03 Titan AC source pages including MAC-02H current table
Family	Compact Power Titan MAC AC sources
Form Factor	3U rack AC source
System Role	programmable AC source / frequency converter
Crest Factor Note	Amps peak divided by amps rms as stated on the OEM table
Output Receptacles	NEMA 5-15R (0-130 Vrms) and NEMA 6-15R (0-260 Vrms) plus binding posts and rear terminal block

Notes

Numeric rows from Compact Power MAC-01/02/03 documentation (MAC-02H 4.0/7.2/12.0/13.0 A table, 0 to 130/260 Vrms, 1500 Vac isolation, regulation and distortion, 3U 37 lb). Oscillator plug-in details are on the MOS-01 data sheet.

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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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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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.