Pure Sinewave, Low Power AC Source

- Low THD and AC noise
- Advanced Measurement Available
- Wide range PFC Input
- Field Parallel Configurable
- Multiple Units Configurable for Multi-Phase Operation



Manual CW Features And Benefits

The manual series front panel knobs (10 turn potentiometers) allow quick adjustment of voltage, current and frequency settings. Frequency and voltage can be programmed remotely using a 0 to 5V analog signal. LED's indicate: output-on, voltage or current mode operation, fault and slave modes. Models can also be paralleled in the field or configured for three phase operation using a factory supplied cable. Current shutdown or foldback modes can be selected from a rear panel switch.

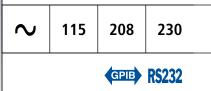
Programmable CW Features And Benefits

Front panel encoder knobs allow programming of voltage, current and frequency settings. Programmed or measured values can be viewed on the two LED displays through push button selection. Menu push buttons enable setting system configuration including parallel or three phase operation. This menu also allows setting current shutdown or foldback modes. Remote IEEE-488.2 and RS-232 control interfaces are standard. LEDs indicate: high or low range output voltage, measure or program mode, voltage or current mode operation and output-on. LED's indicate menu/status, remote control, lockout and fault conditions. Digital Signal Processing (DSP) based measurements include voltage, current (amperes, peak amperes, crest factor), power (watts, VA and power factor) and frequency.

800-2500 VA

135–310 V

2.6-18.6 A



AMETEK

USA

Programmable Power

9250 Brown Deer Road

San Diego, CA 92121-2267

иете

PROGRAMMABLE POWER

The Elgar ContinuousWave (CW) Series of AC power sources provides clean single phase power at an impressive price/performance ratio. These compact switch mode sources come in two series, manual (CW-M) or programmable (CW-P) with standard IEEE-488.2 and RS-232 control. Both series have three power levels, 800 VA, 1250 VA and 2500 VA. The 800 and 1250 VA models are 2U (3.5") high and allow the unit under test to be connected to the front or rear panel. The 2500 VA model is 3U (5.25") high with rear panel output connections. All models can be operated in a benchtop or rackmount configuration.

The front panels have two bright four digit, seven segment displays. Power Factor Corrected (PFC) universal input voltage allows maximum power to be delivered from an AC outlet without the user selecting the range. Fully rated current is delivered for either output voltage range of 135 VAC or 270 VAC over a standard frequency range of 45 to 500 Hz. Both series can be paralleled to provide extra power.

A separate output-on switch controls power to the load. Remote voltage sense is standard. Transformer coupled output is protected against overvoltage and overcurrent. The unit is also protected against over temperature conditions. A two-speed fan results in quieter operation at lower power levels. All models are CE marked.

Applications for the CW Series include:

- •Testing for real world sine wave power conditions
- 400 Hz testing for avionics equipment
- •50/60 Hz margin testing
- Ballast testing
- •Components testing
- Power supply testing for AC to DC converters

858.458.0223

CW Series : Product Specifications

bower 800 VA 1250 VA 2250 VA 90 264 VAC 103 -	Input											
Obtage 90 - 264 VAC 103 - 764 VAC </td <td>Model</td> <td>CW 801M</td> <td>CW 1251N</td> <td>I</td> <td>CW 250</td> <td colspan="2">CW 2501M</td> <td>W 801P</td> <td>CW 1251 P</td> <td>CW 2501 P</td>	Model	CW 801M	CW 1251N	I	CW 250	CW 2501M		W 801P	CW 1251 P	CW 2501 P		
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inequency 47 to 63 itz Trikes Single-phase were factor >0.99 typical at full load nominal line Trickency >>393 typical at full load Were 000 VA 125 VA 250 VA 800 VA 1250 VA 2500 VA Wore 000 VA 1250 VA 2500 VA 800 VA 1250 VA 2500 VA Wore 000 VA 1250 VA 2500 VA 800 VA 1250 VA 2500 VA Wore 000 VA 1250 VA 2500 VA 800 VA 1250 VA 2500 VA Wore 000 VA 1250 VA 2500 VA 800 VA 1250 VA 2500 VA Wore 000 VA 1250 VA 250 VMRMS 100 MVRMS 100 MVRMS 400 MVRMS	Voltage	90 - 264 VAC	103 - 264 VA	4 VAC 180 - 264 VAC		4 VAC	90 -	264 VAC	103 - 264 VAC	180 - 264 VAC		
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internation >>3.0.99 kpical at full load nominal line Other >>3.0.99 kpical at full load nominal line Other CW 801M CW 2501M CW 801P CW 2501 P CW 250	Frequency		47 to 63 Hz									
Thick The second s	Phases		single-phase									
Datuped CW 801M CW 1251M CW 2501 M CW 801P CW 1251 P CW 2501 P decked 800 VA 1250 VA 2500 VA 800 VA 1250 VA 1050 VA 1050 VA 1050 VA 1050 VA 1050 VA 100 VAV	Power Factor				>0.99 t	ypical at fu	ll load nom	ninal line				
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bower 800 VA 1250 VA 2500 VA 800 VA 1250 VA 2500 VA (bitage ranges 0 to 135 Vms, 0 to 270 Vms, user selectable (bitage range 10 transpander Vms, user selectable (bitage range 10 transpander Vms, user selectable (bitage range 10 Vms ±0.1% of range <100 Hz, ± 0.2% of range >100 Hz, ± 0.2% of range >10 Hz, ± 0.2% max 18.6 ARMS 18.6 ARMS 18.6 ARMS 18.6 ARMS 18.6 ARMS 18.6 A	Output											
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Cooling Dual fan speed with side air intake, exhaust to rear	Altitude 0											
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	-											
	Regulatory compliance		F Mark									

CW Series : Product Specifications

800-2500 VA

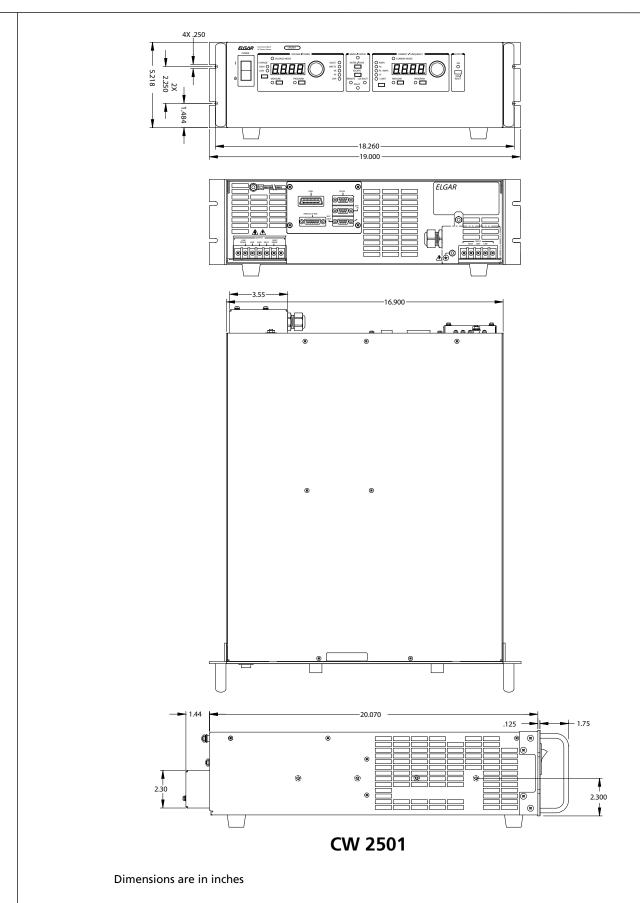
Measurements									
Model	CW 801M	CW 1251M	CW 2501M	CW 801P	CW 1251 P	CW 2501 P			
Power	800 VA	1250 VA	2500 VA	800 VA	1250 VA	2500 VA			
Voltage									
Range		0 to 270 Vrms		0 to 270 Vrms, 0 to 310VRMS (option)					
Accuracy ² (VAC >5V)		\pm 1% of full range		$\pm 0.1\%$ of range <100 Hz, \pm 0.2% of range>100 Hz, \pm 0.3% of range>500 Hz (option)					
Resolution		0.1 Vrms		0.1 Vrms					
Current ³		-							
Range	0 - 6.0 ARMS	0 - 9.4 ARMS	0 - 18.6 ARMS	0 - 6.0 ARMS	0 - 9.4 ARMS	0 - 18.6 ARMS			
Accuracy	±2% of range	for linear loads with > 0.4A for 2500 VA	current >0.2A,	±0.5% of range for linear loads					
Resolution		0.1 ARMS			0.01 ARMS				
Peak Current ³									
Range	-	-	-	0 to 25 A	0 to 35 A	0 to 70 A			
Accuracy	-	-	-		±1% of range				
Resolution	-	-	-	0.1 A					
Frequency									
Range		45 to 500 Hz		45 to 500 Hz, 45 to 1000 Hz (option)					
Accuracy		±0.5% typical		±0.02% max					
Resolution of display		0.1 Hz		0.1 Hz					
Measurements									
Model	CW 8	301 P	CW 1	251 P	CW 2501 P				
Power	800) VA	1250 VA		2500 VA				
Power ³									
Range	0 - 8	00 W	0 - 12	250 W	0 - 2500 W				
Accuracy			±2% of range	range for linear loads					
Resolution			1	W					
Apparent Power ³			-						
Range	0 to 800 VA			250 VA	0 to 2500 VA				
Accuracy		±2% of range for linear loads							
Resolution			1	VA					
Power Factor ³									
Range		0 to 1							
Accuracy			±4% of range	for linear loads					
Resolution		0.01							
Crest Factor									
Range		0 to 3.5							
Accuracy		±5% of range							
Resolution		0.01							
Phase									
Range		-359 to +359 degrees. Positive indicates time lag from reference							
Accuracy		Within 100 microseconds of equivalent angle							
Resolution			1 de	egree					

¹ Over 8 hours at constant line, load and temperature after 15-minute warm-up typical

² Typical values measured at point of sense

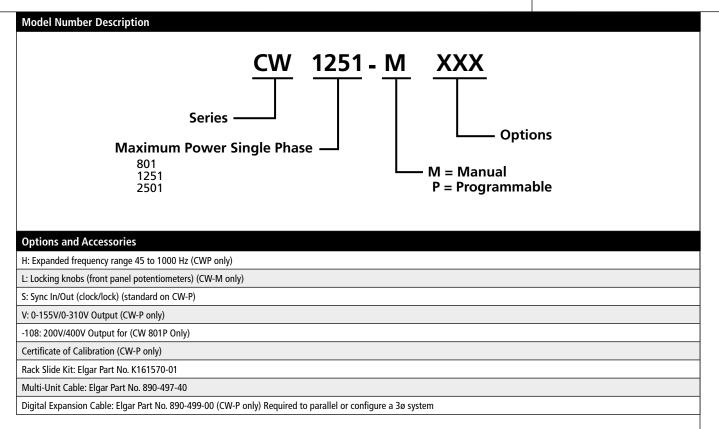
³ In a parallel system (for programmable units only), the current/power displayed on the master unit is the sum of all units in the system

CW Series : Product Diagram



CW Series

800-2500 VA



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CW Series

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