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



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

洛克儀器股份有限公司 Lock Instrument Co. Ltd

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AMETEK

Programmable Power 9250 Brown Deer Road San Diego, CA 92121-2267 USA



10252013

CW Series : Product Specifications

own 800 VA 1250 VA 90 0VA 1250 VA 2500 VA ollage 90 - 264 VAC 113 - 264 VAC 190 - 264 VAC 120 VAC <th>Input</th> <th></th>	Input											
ehsge 90 - 264 VAC 103 - 264	Model	CW 801M	CW 1251N	1	CW 250	CW 2501M		W 801P	CW 1251 P		CW 2501 P	
Universit 13 ARMS max 18.5 ARMS max 19.5 ARMS max 13 ARMS max 18.5 ARMS max 19.5 ARMS max 10.5 CM max <t< td=""><td>Power</td><td>800 VA</td><td>1250 VA</td><td></td><td>2500</td><td colspan="2">2500 VA</td><td>800 VA</td><td>1250 VA</td><td></td><td>2500 VA</td></t<>	Power	800 VA	1250 VA		2500	2500 VA		800 VA	1250 VA		2500 VA	
equency 47 to 63 Hz bases >3.039 typical at full load nominal line filtering >3.039 typical at full load wore 880 VA 1250 VA 250 VA<	Voltage	90 - 264 VAC	103 - 264 VAC		180 - 264 VAC		90 -	264 VAC	103 - 264 VAC		180 - 264 VAC	
single phase -0.9 9 typical at full load nominal line Trifle colspan="2">Trifle colspan="2" Trifle colspan="2" Trifle colspan="2" Trifle colspan="2" Trifle colspan="2" Trifle colspan="2" Trifle colspan="2" Trifle colspan="2" Trifle colspan="2" Trifle colspan="2" Trifle colspan="2" Trifle colspan="2" <th colspa<="" td=""><td>Current</td><td>13 ARMS max</td><td colspan="2">18.5 ARMS max</td><td colspan="2">19.5 ARMS max</td><td colspan="2">13 ARMS max</td><td>18.5 ARMS max</td><td></td><td>19.5 ARMS max</td></th>	<td>Current</td> <td>13 ARMS max</td> <td colspan="2">18.5 ARMS max</td> <td colspan="2">19.5 ARMS max</td> <td colspan="2">13 ARMS max</td> <td>18.5 ARMS max</td> <td></td> <td>19.5 ARMS max</td>	Current	13 ARMS max	18.5 ARMS max		19.5 ARMS max		13 ARMS max		18.5 ARMS max		19.5 ARMS max
over factor >>0.90 Pipical at full load nominal line Ifficiency >>>>>>>>>>>>>>>>>>>>>>>>>>>>	Frequency		47 to 63 Hz									
filtelery >73% typical at full load Vitput CW 2501M CW 2501M CW 2501M CW 2501 P CW 2501 P owar 800 VA 1250 VA 2500 VA 800 VA 1250 VA 2500 VA ollage ranges 0 to 135 Vms, 0 to 270 Vms, user selectable 2500 VA 2500 VA 2500 VA carcary (>SVRC) ± 1% of range 0.1 Vms, user selectable 200 VRMS <200 VRMS	Phases		single-phase									
Nature CW 801 M CW 251 M CW 2501 M CW 801 P CW 1251 P CW 2501 P order 800 VA 1250 VA 2500 VA 800 VA 1250 VA	Power Factor		>0.99 typical at full load nominal line									
fodel CW 801M CW 251M CW 2501M CW 801P CW 251 P CW 250 P order 8300 VA 1250 VA 2500 VA 800 VA 1250 VA 2500 VA oldage range 0 to 35 Vmm. 0 to 270 Vmm. suer selectable 1250 VM 2500 VA	Efficiency		>73% typical at full load									
ower 800 VA 1250 VA 2500 VA 800 VA 1250 VA 2500 VA oltage ranges 0 to 135 Vmm, user selectable	Output											
oitage 0 to 135 Vms, 0 to 270 Vms, user selectable ccurary (>SVAC) ± 1% of range ± 0.1% of range < 100 Hz, ± 0.2% of range > 100 Hz, ± 0.2% of range > 100 Hz, ± 0.2% of range > 100 Hz stal harmonic distortion 0.25% typical < 100Hz add 0.5%/100 Hz above 100 Hz	Model		CW 801M CW 1251M		W 1251M	CW 2501M		CW 801P	CW 1251	Р	CW 2501 P	
ohtage ranges 0 to 135 Vms, 0 to 270 Vms, user selectable ccuracy (>SVAC) ± 1% of range ± 0.1% of range <100 Hz, ± 0.2% of range >100 Hz esolution 0.1 Vms 0.1 Vms tab harmonic distortion 0.25% typical <50 mVRMS	Power		800 VA	1250 VA		2500 VA		800 VA	1250 VA	١	2500 VA	
curacy (>SVAC) ± 1% of range ± 0.1% of range <100 Hz, ± 0.2% of range <100 Hz, ± 0.0% max	/oltage											
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notal harmonic distortion 0.25% typical <1004r. add 0.5%/100 Hz above 100 Hz	Accuracy (>5VAC)											
C noise level (typical) <50 mVRMS	Resolution	0.1 Vrms										
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ad regulation ±0.1% of full scale voltage for a ±10% line change from nominal line voltage (<5 mVRMS typical, measured at point of sense) ±0.1% of full scale voltage for a ±10% line change from nominal line voltage (<5 mVRMS typical, measured at point of sense) s vmrent voltage sense 5 Vmrs total lead voltage drop urrent 35VAC Range 6.0 ARMS 9.4 ARMS 18.6 ARMS 6.0 ARMS 9.4 ARMS 9.3 ARMS 30.0 ARMS 4.7 ARMS 9.3 ARMS 3.0 ARMS 4.7 ARMS 9.3 ARMS ccuracy ±0.5% typical ±0.5% max esolution 0.1 ARMS 0.01 ARMS 0.01 ARMS requency range ange 45 to 500 Hz 45 to 500 Hz 45 to 500 Hz 45 to 500 Hz (option) ccuracy ±0.5% typical ±0.02% max esolution 0.1 HZ 0.1 Hz 0.01 Hz for renote programming hase All models single phase output. Multi-phase system configuration with Digital Expansion Cable ower factor of load 0 lag to 0 lead typical 19 in. 19 in. reght 2.0.07 in. 2	AC noise level (typical)		<50 mVRMS	I I		NRMS	<50 mVRM	1S <50 mVRI	MS	<100 mVRMS		
in regulation in equilation in the full scale voltage for a ±10% inter change from nominal line voltage (<s at="" inte<="" interest="" measured="" mote="" mvrms="" of="" point="" sense="" td="" typical,="" voltage=""><td>Amplitude stability¹</td><td></td><td></td><td>±0.1%</td><td>6 of full scale</td><td></td><td></td><td colspan="4">±0.05% of full scale</td></s>	Amplitude stability ¹			±0.1%	6 of full scale			±0.05% of full scale				
strement Strms total lead voltage drop 35VAC Range 6.0 ARMS 9.4 ARMS 18.6 ARMS 6.0 ARMS 9.4 ARMS 18.6 ARMS 35VAC Range 3.0 ARMS 4.7 ARMS 9.3 ARMS 3.0 ARMS 4.7 ARMS 9.3 ARMS 25VAC Range 3.0 ARMS 4.7 ARMS 9.3 ARMS 3.0 ARMS 4.7 ARMS 9.3 ARMS 20VAC Range ± 0.5% typical ± 0.5% max 9.3 ARMS 0.01 ARMS 9.3 ARMS ccuracy ± 0.5% typical ± 0.5% max 0.01 ARMS 0.01 ARMS 0.01 ARMS requency range 45 to 500 Hz 45 to 500 Hz, 45 to 1000 Hz (option) 4.02% max 0.02% max ccuracy ± 0.5% typical ± 0.02% max 0.1 Hz, 0.01 Hz for remote programming hase All models single phase output. Multi-phase system configuration with Digital Expansion Cable 0 lag to 0 lead bysical 0.1 Hz 0.1 Hz 0.1 Hz 0.20.7 in. 52.5 in. 3.5 in. 5.25 in. fidth 19 in. regisht 3.0 in. 5.21 M. CW 20.07 in.	oad regulation		±0.1% of full scale voltage for a full resistive load to no load (<10 mVRMS typical, measured at point of sense)							int of sense)		
urrent 6.0 ARMS 9.4 ARMS 18.6 ARMS 6.0 ARMS 9.4 ARMS 18.6 ARMS 9.4 ARMS 18.6 ARMS 35VAC Range 3.0 ARMS 4.7 ARMS 9.3 ARMS 9.3 ARMS 9.3 ARMS 9.3 ARMS 4.7 ARMS 9.3 ARMS 9.3 ARMS 4.7 ARMS 9.3 ARMS 0.01 ARMS esolution 0.01 ARMS 0.01 ARMS 0.01 ARMS 0.01 ARMS esolution 0.01 ARMS 0.02% max 0.01 ACMS topicon 0.02% max 0.02% CM MAX 0.01 A	ine regulation	±0.1% of full scale voltage for a ±10% line change from nominal line voltage (<5 mVRMS typical, measured at point of sense										
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requency range ange 45 to 500 Hz 45 to 500 Hz, 45 to 1000 Hz (option) ccuracy ±0.5% typical ±0.02% max esolution 0.1 Hz 0.1 Hz, 0.01 Hz for remote programming hase All models single phase output. Multi-phase system configuration with Digital Expansion Cable ower factor of load 0 lag to 0 lead Project hysical CW 1251 M CW 2501 M CW 801 P CW 2501 P eight 3.5 in. 3.5 in. 5.25 in. 3.5 in. 5.25 in. fidth 19 in. 19 in. 19 in. 19 in. 19 in. eight 3.5 in. 20.07 in. 20.07 in. 20.07 in. 20.07 in. gendt 48 lbs (22 kg) 53 lbs (24 kg) 86 lbs (39 kg) 48 lbs (22 kg) 53 lbs (24 kg) 86 lbs (39 kg) hipping Weight 56 lbs (25 kg) 61 lbs (28 kg) 94 lbs (43 kg) 56 lbs (25 kg) 94 lbs (43 kg) nvirronmental	ccuracy		± 0.5% typical					± 0.5% m	nax			
ang45 to 500 Hz45 to 500 Hz45 to 500 Hz, 45 to 1000 Hz (option)ccuracy $\pm 0.5\%$ typical $\pm 0.02\%$ maxesolution0.1 Hz0.1 Hz, 0.01 Hz for remote programminghaseAll models single phase output. Multi-phase system configuration with Digital Expansion Cableower factor of load0 lag to 0 leadthysicalCW 2501 MCW 2501 MCW 201 PCW 2501 PloadelCW 801 MCW 1251 MCW 2501 MCW 801 PCW 1251 PCW 2501 Plight3.5 in.3.5 in.5.25 in.3.5 in.3.5 in.5.25 in.light19 in.19 in.19 in.19 in.19 in.19 in.leght20.07 in.20.07 in.20.07 in.20.07 in.20.07 in.20.07 in.leight56 lbs (25 kg)61 lbs (28 kg)94 lbs (43 kg)56 lbs (25 kg)61 lbs (28 kg)94 lbs (43 kg)nvironmentalImperature0 to 40°CImperature0 to 85% at 25°C derate to 50% at 40°C (non condensing)0,000 feetImperatureoolingDual fan speed with side air intake, exhaust to rearImperature10 to 85% at 25°C derate to 50% at 40°C (non condensing)0,000 feetImperatureoolingDual fan speed with side air intake, exhaust to rearImperature10 to 85% at 25°C derate to 50% at 40°C (non condensing)10,000 feetoulingDual fan speed with side air intake, exhaust to rearImperatureImperatureImperatureImperatureoolingDual fan speed with side air intake, exhaust to rear	Resolution	0.1 ARMS 0.01 ARMS										
interfact interfact <thinterfact< th=""> <thinterfact< th=""> interfact</thinterfact<></thinterfact<>	Frequency range											
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All models single phase output. Multi-phase system configuration with Digital Expansion Cable ower factor of load 0 lag to 0 lead hysical 0 todel CW 801M CW 1251M CW 2501M CW 801P CW 1251 P CW 2501 P eight 3.5 in. 3.5 in. 5.25 in. 3.5 in. 3.5 in. 5.25 in. fidth 19 in. 19 in. 19 in. 19 in. 19 in. 19 in. eight 20.07 in. 20.07 in. </td <td>Accuracy</td> <td colspan="5">±0.5% typical</td> <td colspan="4">±0.02% max</td>	Accuracy	±0.5% typical					±0.02% max					
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Iddel CW 801M CW 1251M CW 2501M CW 801P CW 1251 P CW 2501 P eight 3.5 in. 3.5 in. 3.5 in. 3.5 in. 3.5 in. 5.25 in. /idth 19 in. epth 20.07 in.	Power factor of load		0 lag to 0 lead									
eight 3.5 in. 3.5 in. 5.25 in. 3.5 in. 3.5 in. 5.25 in. /idth 19 in. 10 in. 20.07 in	Physical											
Vidth 19 in. 20.07 in.	Vodel	CW 801M	CW 1251	Л	CW 25	01M	C	W 801P	CW 1251 P		CW 2501 P	
epth20.07 in.20.07 in.	leight	3.5 in.	3.5 in.		5.25 in.			3.5 in.	3.5 in.		5.25 in.	
48 lbs (22 kg)53 lbs (24 kg)86 lbs (39 kg)48 lbs (22 kg)53 lbs (24 kg)86 lbs (39 kg)hipping Weight56 lbs (25 kg)61 lbs (28 kg)94 lbs (43 kg)56 lbs (25 kg)61 lbs (28 kg)94 lbs (43 kg)nvironmentaluperating Temperature0 to 40°C-40 to +70°Cumidity Range0 to 85% at 25°C derate to 50% at 40°C (non condensing)ltitude0 perating full power available up to 6,000 feet, non operating to 40,000 feetoolingDual fan speed with side air intake, exhaust to rear	Vidth	19 in.	19 in.		19 i	in.		19 in.	19 in.		19 in.	
hipping Weight 56 lbs (25 kg) 61 lbs (28 kg) 94 lbs (43 kg) 56 lbs (25 kg) 61 lbs (28 kg) 94 lbs (43 kg) nvironmental perating Temperature 0 to 40°C torage Temperature -40 to +70°C umidity Range 0 to 85% at 25°C derate to 50% at 40°C (non condensing) ltitude 0 perating full power available up to 6,000 feet, non operating to 40,000 feet ooling Dual fan speed with side air intake, exhaust to rear	Depth	20.07 in.	20.07 in.	20.07 in.		20.07 in.		0.07 in.	20.07 in.		20.07 in.	
nvironmental operating Temperature 0 to 40°C torage Temperature -40 to +70°C umidity Range 0 to 85% at 25°C derate to 50% at 40°C (non condensing) ltitude Operating full power available up to 6,000 feet, non operating to 40,000 feet ooling Dual fan speed with side air intake, exhaust to rear	Weight	48 lbs (22 kg)	53 lbs (24 k	(g)	86 lbs (39 kg)		48 lbs (22 kg)		53 lbs (24 kg)		86 lbs (39 kg)	
perating Temperature 0 to 40°C torage Temperature -40 to +70°C umidity Range 0 to 85% at 25°C derate to 50% at 40°C (non condensing) ltitude Operating full power available up to 6,000 feet, non operating to 40,000 feet ooling Dual fan speed with side air intake, exhaust to rear	Shipping Weight	56 lbs (25 kg)	61 lbs (28 k	(g)	94 lbs (4	43 kg)	56 l	bs (25 kg)	61 lbs (28 kg)		94 lbs (43 kg)	
torage Temperature -40 to +70°C umidity Range 0 to 85% at 25°C derate to 50% at 40°C (non condensing) ltitude Operating full power available up to 6,000 feet, non operating to 40,000 feet ooling Dual fan speed with side air intake, exhaust to rear	Environmental											
umidity Range 0 to 85% at 25°C derate to 50% at 40°C (non condensing) lititude Operating full power available up to 6,000 feet, non operating to 40,000 feet ooling Dual fan speed with side air intake, exhaust to rear ieneral Image: Construct of the speed with side air intake, exhaust to rear	Operating Temperature	0	to 40°C									
Ititude Operating full power available up to 6,000 feet, non operating to 40,000 feet ooling Dual fan speed with side air intake, exhaust to rear ieneral Image: Construction of the second	Storage Temperature	-4	-40 to +70°C									
ooling Dual fan speed with side air intake, exhaust to rear	Humidity Range	0	0 to 85% at 25°C derate to 50% at 40°C (non condensing)									
ieneral	Altitude	0	perating full power av	ailable	up to 6,000 fee	et, non oper	ating to 40),000 feet				
	Cooling	D	ual fan speed with side	e air int	ake, exhaust to	rear						
egulatory compliance CE Mark	General											
	Regulatory compliance	С	E Mark									

CW Series : Product Specifications

800-2500 VA

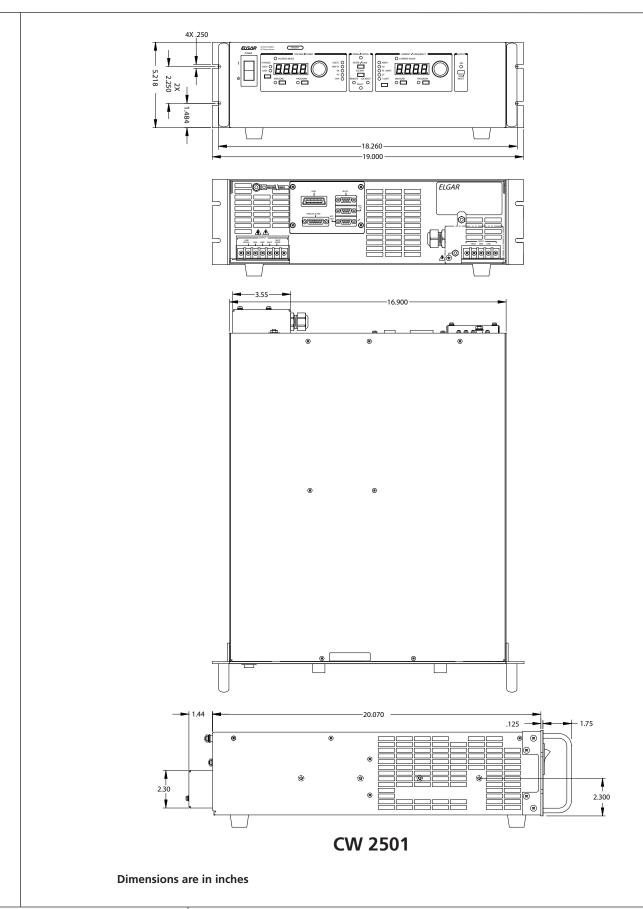
Measurements									
Model	CW 801M	CW 1251M	CW 2501M	CW 801P	CW 1251 P	CW 2501 P			
Power	800 VA	1250 VA	2500 VA	800 VA	1250 VA	2500 VA			
Voltage									
Range		0 to 270 Vrms		0 to 270 Vrms, 0 to 310VRMS (option)					
Accuracy ² (VAC >5V)		\pm 1% of full range		±0.1% of range <100 Hz, ± 0.2% of range>100 Hz, ± 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	e for linear loads with o > 0.4A for 2500 VA	current >0.2A,	$\pm 0.5\%$ 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 (
Accuracy		±0.5% typical		±0.02% max					
Resolution of display		0.1 Hz		0.1 Hz					
Measurements									
Model	CW	801 P	CW 1	1251 P CW 2501 P					
Power	800	800 VA 125			0 VA 2500 VA				
Power ³									
Range	8 - 0	800 W	0 - 12	250 W	0 - 2	500 W			
Accuracy			±2% of range	for linear loads					
Resolution			1	W					
Apparent Power ³									
Range	0 to 8	300 VA	0 to 1	250 VA	0 to 2	500 VA			
Accuracy			±2% of range	for linear loads					
Resolution			1	VA					
Power Factor ³									
Range			0 1	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	n reference				
Accuracy		Within 100 microseconds of equivalent angle							
Resolution		1 degree							

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

² Typical values measured at point of sense

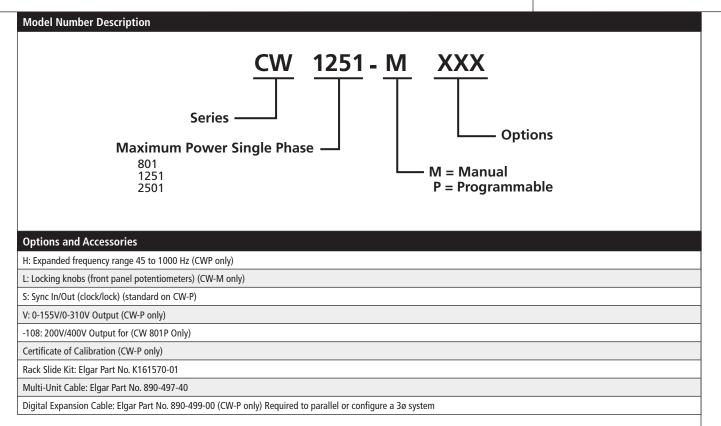
³ In a parallel system (for programmable units only), the current/power displayed on the master unit is the sum of all units in the system

CW Series : Product Diagram



CW Series

800-2500 VA



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CW Series

Notes	