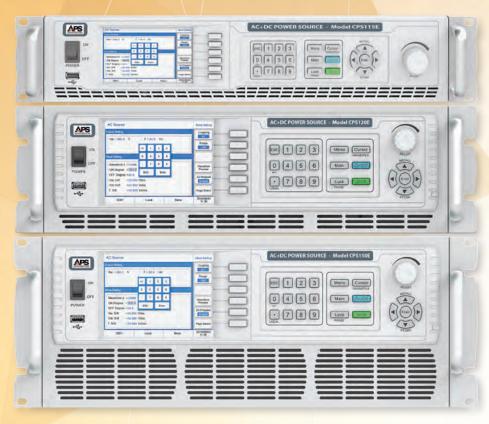
CPS 100 Series

Advanced AC and DC **Programmable Power**



Model:	CPS106	CPS110	CPS115	CPS120	CPS130	CPS140	CPS150
Power:	600W	1000W	1500W	2000W	3000W	4000W	5000W
150Vac	4.8 A	8 A	13.8 A	16 A	27.6 A	32 A	46 A
300Vac	2.4 A	4 A	6.9 A	8 A	13.8 A	16 A	23 A
Height		2U		3U		4U	

















CPS Series

600 VA/W to 5000 VA/W

AC: 0 - 150 V / 0 - 300 V 15 - 1000 Hz (S)

15 - 1200 Hz (E)

DC: 0 - 212 V / 0 - 424 V

Look no further for powerful yet cost effective single phase AC and DC power test solutions than the compact CPS100 Series programmable power sources. Designed using stateof-the-art Digital Signal Processing, these power sources support a wide range of AC and/or DC tests with excellent performance and reliability, the CPS100 units are versatile power sources with a wide range of functions and capabilities.

Available in seven power levels from 600 VA to 5000 VA, a wide range of commercial, industrial and aviation test applications are covered. Models up to 1500VA can be operated from either 100V to 265V universal AC input power. Models of 2000VA and higher can be operated from single phase 230V or split phase 208V AC power.



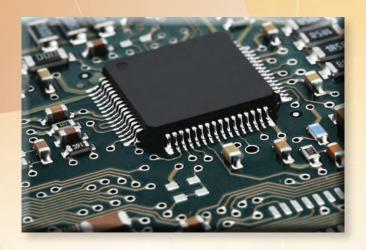
Worldwide Supplier of Power **Conversion Equipment**

Toll Free 1-866-517-8400 www.adaptivepower.com

VALUE & PERFORMANCE BY LEVERAGING MODERN TECHNOLOGY

The all new CPS100 Series of precision power sources uses state of the art digital signal processing and programmable logic technology to implement a digital power conversion topology that combines high efficiency with a rich feature set and excellent specifications.

Packaged in a compact, standard 19" rack mount chassis, these powerful functions are easily accessible through an easy to use, color touch screen based user interface from the front panel or by sending industry standard SCPI commands over one of several standard digital control interfaces.



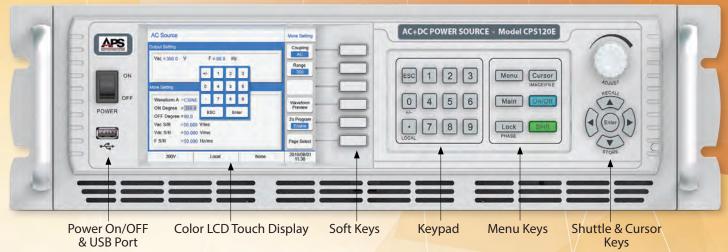
BROAD RANGE OF APPLICATIONS

The extensive feature set of the CPS100 Series power sources makes them suitable for a broad range of AC and or DC power applications. With power levels from 500VA

to 5000VA per unit and paralleling capability, a wide range of present and future power demands can be met. Put the CPS100 Series to the test!



MODERN USER INTERFACE FOR EASE OF OPERATION



All CPS100 Series models share an intuitive user interface using a combination of touch, soft keys, decimal entry pad and rotary shuttle knob. This results in an easy to use power source for novice and experienced users alike.

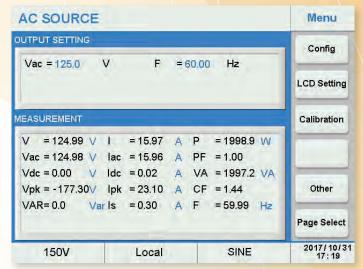
The large color LCD allows visualization of arbitrary waveforms as well as a wide assortment of precision AC and DC measurements.

MODE AND VOLTAGE RANGE SELECTION



Select AC, DC or AC+DC Coupling and V Range 150, 300 or AUTO

AC MODE



AC Voltage & Frequency Setting and Measurements

DC MODE



DC Voltage Setting and Measurements

AC+DC MODE

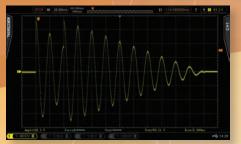


AC+DC Voltage, Frequency Setting and Measurements

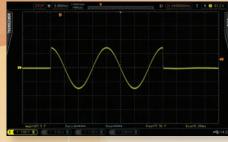
TRANSIENT PROGRAMMING - LINE DISTORTION SIMULATION

The powerful output transient programmability offers LIST, STEP and PULSE modes to change voltage and or frequency using precise ramp and dwell times. This allows a wide range of Line Distortion conditions to be simulated with the CPS100 power sources for either AC

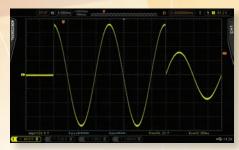
or DC power applications. For AC applications, start and stop phase angles can be programmed for each transient step as needed. Below are some AC output samples for each of the three transient modes.



TRANSIENT LIST MODE



TRANSIENT PULSE MODE

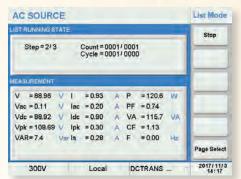


TRANSIENT STEP MODE

Transient programming is easily accomplished from the front panel. Multiple transient list can be saved to internal memory or external USB thumb drive. The LIST Selection screen and Transient RUN screen are shown to the left. During execution, the active step in each list and total steps is shown and counted down as the transient progresses.



TRANSIENT LIST MODE



TRANSIENT PULSE MODE

VOLTAGE & FREQUENCY SLEW RATES

Voltage slew rates are fully programmable for both AC and DC settings. Expressed in Volts per msec, this allows controlled voltage ramps to limit inrush current or voltage when

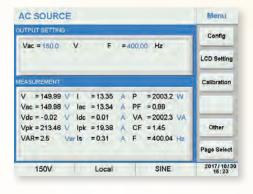
testing specific



types of loads. The same is true for frequency changes where the slew rate can be set in Hz/ms.

INTEGRATED POWER METER

The bottom portion of each setting screen displays up to 15 measurements simultaneously. The order in which these are displayed can be rearranged if needed for best viewing.



This eliminates the need for additional metering equipment saving both time and cost.

PROGRAMMABLE PHASE ANGLES

Programmed AC voltage changes can be set to occur at any specific phase angle from 0.0° through 359.9° for precise event occurrence. The example here shows a 100Vac



two cycle event started at 90° and terminated at 90° after two cycles

HIGH CURRENT CREST FACTOR SUPPORT

The CPS100 Series supports current crest factors up to 5 or 6 to 1. This allows proper evaluation of inrush current behavior for a wide range of real-world



loads that don't have adequate inrush limiter design or non power factor corrected AC inputs.

ENHANCED VERSION CPS100E MODELS

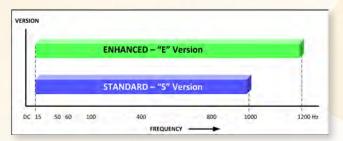
The Enhanced (E Suffix) CPS100 models offer an extensive list of additional features and capabilities compared to the standard CPS100 models. For the most demanding AC or DC power R&D or test applications, the E models represent an excellent value proposition compared to more expensive offerings from premium brands for the more discerning user.

The table on the right show a comparison of features and functions between the Standard S model and the Enhanced E version.

The next few pages highlight some of these Enhanced functions.

EXTENDED FREQUENCY RANGE

The ENHANCED models (E suffix) offer an extended frequency range to 1200Hz and improved bandwidth for enhanced harmonic waveform synthesis.



MODEL FEATURES COMPARISON

		/
FEATURES	STANDARD (S)	ENHANCED (E)
AC Mode	•	•
DC Mode	•	•
AC+DC Mode	•	•
Frequency Range	15-1000Hz	15-1200Hz
Dual AC Voltage Ranges 150/300 Vac	•	•
Dual DC Voltage Ranges 212/425 Vdc	•	•
Arbitrary Waveforms	•	•
Waveform Synthesis from Front Panel	•	•
Transient List Mode	•	•
Measurements	•	•
Harmonic Analysis & THD		•
Programmable Impedance		•
IEC411	•	•
IEC413		•
IEC414		•
IEC428		•
Triac Function		•
LAN	•	•
USB	•	•
GPIB	option	option
RS232	•	•
RS485	•	•

Feature Comparison Table Standard versus Enhanced version models

HARMONICS & DISTORTION MEASUREMENTS

For industrial and commercial application operating at 50Hz or 60Hz utility frequencies, the Enhanced versions of the CPS100 Series support harmonics measurements up to the 40th harmonic. Individual harmonic amplitudes and phase angles with respect to the fundamental

Harmonic AC SOURCE Measurement HARMONIC MEASUREMENT SETTING Trigger THD = 14.4 % DC = 0.00V Fundamental = 113.79 V Compose 150 Percent Waveform 75 Edit Page Select 2017/11/3 14:34 150V Local STOP

Harmonic Measurements Bar Chart

can be display in absolute or relative value as either a visual bar chart or a numeric table as shown below. Harmonic measurements apply to Voltage and Current and include calculation of total harmonic distortion (THD) in % of fundamental.

c so	URCE					Harmonic Measuremen
RMONIC	MEASURE	MENT SE	TING			- Aist
THD:	= 14.4	%	DC	= 0.00	V	Stop
Funda	amental=	113.79	/			Compose
N	%	N	%	N	%	Percent
2	0.0	15	0.0	28	0.0	
3	10.0	16	0.0	29	0.0	
4	0.0	17	0.0	30	0.0	
5	7.1	18	0.0	31	0.0	
6	0.0	19	0.0	32	0.0	Waveform
7	6.0	20	0.0	33	0.0	Preview
8	0.0	21	0.0	34	0.0	
	3.9	22	0.0	35	0.0	2.52
10	0.0	23	0.0	36	0.0	Edit
11	2.0	24	0.0	37	0.0	
12	0.0	25	0.0	38	0.0	Samuel San Av
13	0.0	26	0.0	39	0.0	Page Select
14	0.0	27	0.0	40	0.0	
150	V V	Lo	cal	RUN	NNING	2017/11/3 14:34

Harmonic Measurements Table Data

IEC 61000-4 POWER IMMUNITY TESTS



C4-11-VC	LTD	PS & SH	IORE IN	TERUPTIO	INS			
Voltage	Dip	s =Cl	ass 2	Volt R	ange = 3	00	٧	_
Coun	t	=3						
Unon	1	=23	0.0					
Frequ	iency	=50	.00					Diagram
Step	1%	Cycle	Start	Degree	Repeat	Inter	val	
1	0	0.5	0.0	R	3	10	S	Save
2	0	1.0	0.0	•	3	加	S	
3	70	25.0	0.0	2	5.	10	s	
	H							Page Selec
300	V		Lo	cal	5	INE	Ħ	2017/11/1



IEC 61000-4-11 Voltage Dip Test Screen - Class 2

IEC 61000-4-11 Voltage Dips Sequence

IEC 61000-4-11 Voltage Variations Setup

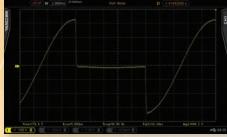
The ENHANCED models (E suffix) in the CPS100 Series are equipment with a complete set of IEC 61000-4 power compliance test functions. These are all related to power line immunity requirements for conformance to EU regulations for CE marking of products. This allows the user run these tests from the front panel of the power source.

Included Test Standards are:

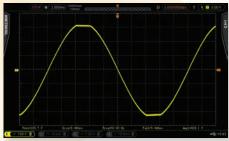
IEC 61000-4-11 Voltage Dips, Interrupts and Variations¹ IEC 61000-4-13 Harmonics and Inter harmonics

IEC 61000-4-14 Voltage Fluctuations IEC 61000-4-28 Frequency Variations

Note 1: Pre-compliance only



IEC 61000-4-11 ½ Cycle Voltage Dip @ 90°



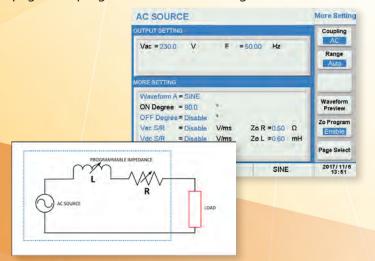
IEC 61000-4-13 Flattop Curve Test



IEC 61000-4-14 Voltage Fluctuations Test

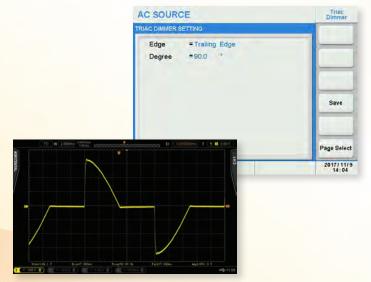
PROGRAMMABLE OUTPUT IMPEDANCE

Programmable impedance allows for adjustment of power source output impedance by setting L and R values to simulate a specific test reference impedance. See page 8 for programmable L and R ranges.



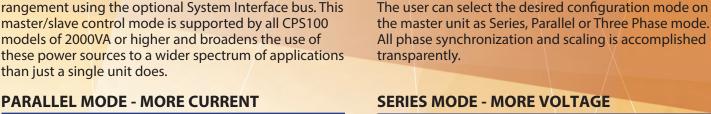
TRIAC MODE for LIGHTING APPLICATIONS

Built-in TRIAC light dimmer voltage waveforms allow programming of leading or lagging and firing angle for testing of LED drivers and other lighting products.

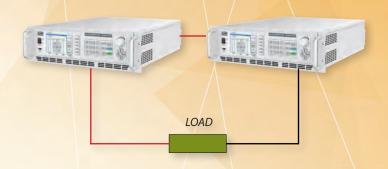


VERSATILE MULTI-UNIT CONFIGURATIONS¹

When the need for more power, higher voltage or three phase arises, configure two or more CPS100 Power Sources in either a parallel, series or multi-phase arrangement using the optional System Interface bus. This master/slave control mode is supported by all CPS100 models of 2000VA or higher and broadens the use of these power sources to a wider spectrum of applications than just a single unit does.





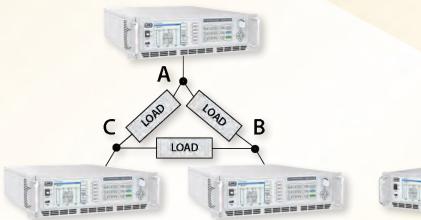


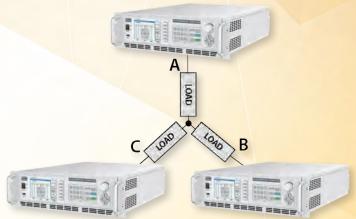
The digital system interface bus connects the master unit to two or more slaves and allows all programming

and read-back to be controlled from the master unit.

THREE PHASE DELTA (3-WIRE) LOADS

THREE PHASE WYE (4-WIRE) LOADS





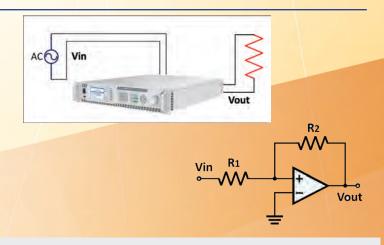
Note 1: Multi-unit operation requires the -AUX Option (Auxiliary I/O, Parallel Mode, Multi-phase mode) and is not available on CPS106, CPS110 or CPS115 Models

EXTERNAL ANALOG INPUT

When equipped with the Auxiliary I/O option, the CPS100 power sources can be controlled using an analog input signal or a DC voltage reference. This analog input BNC has three selectable modes of operation:

- **ANALOG:** External AC or DC input signal is amplified and summed with internal voltage setting.
- RMS: External DC voltage input is used to determine AC RMS output level.
- **SET:** Output voltage is linearly proportional to external AC or DC input voltage.

The external analog input must be Enabled for use. Input voltage range is ± 10 Vpk or 0-10Vdc. The BNC input can also be configured as a SYNC input to synchronize the power source to an external clock.



TECHNICAL SPECIFICATIONS

MODEL		CPS106	CPS110	CPS115	CPS120	CPS130	CPS140	CPS150
OUTPUT PO	OUTPUT POWER & CURRENT SPECIFICATIONS							
Power Rating	g (VA/W)	600	1000	1500	2000	3000	4000	5000
AC Current	150V Range	5.6	9.2	13.8	16.0	27.6	32.0	46.0
(Aac)	300V Range	2.8	4.6	6.9	8.0	13.8	16.0	23.0
Crest Factor		5.8 to 1	6 to 1				5 to 1	4 to 1
DC Current	212V Range	3.96	6.5	9.76	11.3	19.6	22.6	32.6
(Adc)	424V Range	1.89	3.3	4.88	5.65	9.8	11.3	16.3

MODEL	CPS106	CPS110	CPS115	CPS120	CPS130	CPS140	CPS150		
INPUT VOLTAGE & CURRENT SPECIFICATIONS									
AC Input Voltage	90 - 265 Vac		100 - 265 Vac	190 - 265 Vac, Single Phase (L, N, G)					
Phases		1 Phase, 2W+G			1 Phase, 2W+G / 2 Phase L-L + G				
Line Frequency		47 - 63 Hz		47 - 63 Hz					
Max. AC Current	10 A	15 A	19 A	14 A	20 A	25 A	30 A		
Input Power Factor @ F.L.	> 0.91	> 0.95	> 0.98	> 0.98	> 0.99	> 0.99	> 0.99		
Efficiency @ Full Load	80 %	84 %	86 %	86 %	85 %	86 %	86 %		

/							
MODEL		CPS106 ~ 115 CPS120 ~ 150					
OUTPUT SP	ECIFICATIONS						
	AC Low / High	0 - 150 Vac / 0 - 300 Vac					
Voltage	DC Low / High	0 - 212 Vdc / 0 - 424 Vdc					
Ranges	Resolution	0.1 V					
	Accuracy	± (0.2% setting + 0.2% F.S.)					
Waveforms		Sine, THD, Harmonics, User (6)					
	Range	S Versions: 15 - 1000 Hz, E Versions: 15 - 1200 Hz					
Frequency	Resolution	0.1 Hz 15.0 - 99.9 Hz / 1 Hz 100 Hz 1000 Hz / 5Hz 1001 Hz - 1200 Hz					
	Accuracy	\pm 0.1% of setting \pm 0.03% of setting					
C++/C+	Range	0 - 359.9°					
Start/Stop Phase	Resolution	± 1° @ 45 - 65 Hz					
Titasc	Accuracy	±1%, 45- 65 Hz					
Load Regula	tion	± 0.1% F.S. R∟, DC, 15-100 Hz					
Load Negula	ition	± 0.5% F.S. R _L , 100.1-1200 Hz					
External Volt	tage Sense	Remote sense, Max Vdrop 5.0V					
Line Regulat	ion	± 0.1 V					
Harmonic Di (Full Resistiv	istortion (THD) e Load)	15-70Hz: < 0.3% @ 80-140Vac in Low Range, @ 160-280Vac in High Range					
		70.1-500Hz: < 1% @ 80-140Vac in Low Range, @ 160-280Vac in High Range					
		501-1000Hz: < 1% @ 100-140Vac in Low Range, @ 160-280Vac in High Range					
		1001-1200Hz: < 2% @ 100-140Vac in Low Range, @ 160-280Vac in High Range					
Ripple & Noi	se (rms)	L: < 700 mVrms @ 20Hz-1MHz BW					
		H: < 1100 mVrms @ 20Hz-1MHz BW					
C 11							

OUTPUT SPECIFICATIONS (Continued)					
Ripple & Noise (peak)		< 4000mVpp @ 20Hz-1MHz BW			
Voltage Rise / Fall time		< 180 usec			
Over	Resolution	0.01 A			
Current	Accuracy	± (0.5% setting + 1.0% F.S.)			
Fold-back	Response	< 1400 msec			

MODEL		All			
PROGRAMA	MABLE FUNCTIO	ONS			
	Modes	List, Pulse, Step			
Transients (Available	Parameters	AC Voltage, Frequency, DC Voltage, Current, Start Phase, Stop Phase			
from 15- 70Hz)	Timing	Transition Time: 0.0 - 66.5 ms Resolution: 0.1 sec Transient Count: 0 - 9999			
Test Mode		Pass/Fail based on Measurements			

MODEL		Enhanced (E) Versions Only				
PROGRAMA	MABLE IMPEDA	NCE				
Dange	Resistance	0Ω-1Ω				
Range	Inductance	200 uH - 1 mH				
	Note:	Available only on E version models				
HARMONIC	S & INTER HAR	MONICS				
Range		15 Hz - 2400 Hz				
Waveform S	ynthesis	2 - 40 Harmonics @ 50 Hz or 60 Hz				
HARMONIC	& THD MEASU	REMENTS				
Parameters		Voltage, Current				
Harmonic Measurements		2 - 40 Harmonics @ 50Hz or 60 Hz				
THD %		Calculated				





TECHNICAL SPECIFICATIONS (Continued...)

MODEL	MODEL		CPS110	CPS115	CPS120	CPS130	CPS140	CPS150		
CURRENT &	POWER MEASU	REMENTS								
	High Range	0.15 -5.6 A	0.15 -9.2 A	0.15 - 13.8 A	0.15 - 20.0 A	0.3 - 27.6 A	0.3 - 32 A	0.3 - 46 A		
	Med. Range	-	-	-	-	0.2 - 20 A	0.2 - 20 A	0.2 - 20 A		
Current	Low Range	0.1 - 2.8 A	0.1 - 4.6 A	0.1 - 6.9 A	0.1 - 5 A	0.1 - 5 A	0.1 - 5 A	0.1 - 5 A		
RMS	mA Range	-	-	-	0.02 - 1.5 A	0.02 - 1.5 A	0.02 - 1.5 A	0.02 - 1.5 A		
(Arms)	Resolution				0.01 A					
	Accuracy	H/M: ± (0.4% setting + 1.0% F.S.) L/mA: ± (0.4% setting + 1.0% F.S.)			H/M: ± (0.4% setting + 1.5% F.S.) L/mA: ± (0.4% setting + 1.2% F.S.)		H/M: ± (0.4% setting + 1.0% F.S.) L/mA: ± (0.4% setting + 1.5% F.S.)			
	Range	0 - 32.4 A	0 - 81.5 A	0 - 81.5 A	0 - 81.5 A	0 - 168.6 A	0.05 - 163 A	0.05 - 188 A		
Peak Curr.	Resolution				0.01 A					
(A)	Accuracy		\pm (0.4% setting + 1.09 \pm (0.4% setting + 1.0		H/M: ± (0.4% setting + 0.6% F.S.) L/mA: ± (0.4% setting + 1.0% F.S.)					
	Range	0-612 W	0 - 1020 W	0 - 1530 W	0 - 2040 W	0 - 3060 W	0 - 4080 W	0 - 5100 W		
Power (Watts)	Resolution		0.1 W							
(vvacts)	Accuracy		±(0	.4% setting + 1.0	% F.S.) @ PF > 0.	2 and Voltage > :	5.0 V			
	Range	0-612 VA	0 - 1020 VA	0 - 1530 VA	0 - 2040 VA	0 - 3060 VA	0 - 4080 VA	0 - 5100 VA		
App. Power (VA)	Resolution				0.1 VA					
(VA)	Accuracy			Cal	alculated, Vrms * Irms					
Reactive	Range	0-612 VAR	0 - 1020 VAR	0 - 1530 VAR	0 - 2040 VAR	0 - 3060 VAR	0 - 4080 VAR	0 - 5100 VAR		
Power	Resolution			·	0.1 VAR					
(VAR)	Accuracy			Ca	lculated, √(VA² - \	N ²)				

MODEL		All Models				
MEASUREME	TIONS-V, F, P					
	AC Range	0 - 300 Vac				
Valtage	DC Range	0 - 424 Vdc				
Voltage	Resolution	0.1 V				
	Accuracy	± (0.2% setting + 0.2% F.S.)				
	Range	S Version: 15 - 1000 Hz, E Version: 15 - 1200 Hz				
Frequency	Resolution	0.1 Hz 15.0 - 99.9 Hz 1 Hz 100 Hz - 1000 Hz 5 Hz 1001 Hz - 1200 Hz				
	Accuracy	± 0.1% of setting				
5	Range	0.00 - 1.00				
Power Factor	Resolution	0.01				
Factor	Accuracy	Calculated W/VA				

MODEL	All Models
TEST MODE PARAMETERS	
Memories	1 through 50
Steps / Memory	1 through 9
Memory Cycling	0 - 9999, 0 = Cont., 1 = OFF
Test Limits	Frequency, Current Hi/Lo, Power Hi/ Lo, App. Power Hi/Lo, PF Hi/Lo
Ramp Up or Down	0.0 - 999.9
Delay	0.5 - 999.9
Dwell	0.5 - 999.9
Step Cycles	0 - 9999, 0 = Cont., 1 = OFF
Connect	ON, OFF
Surge / Drop Voltage	ON: Start 0-20ms, Duration 0-20ms OFF: Start 0-99ms, Duration 0-99ms

MODEL	CPS106~115	CPS120 ~ 150			
SYSTEM PARAMETERS					
Display	5.6" Color Touch 640 x 480	4.3" Color Touch 640 x 480			
Data Entry Modes	Soft Keys, Numeric Keypad, Shuttle, USB stick				
Output Protection	OCP, OVP, OTP, RCP				
AC Input Protection	PRI-UVP, PRI	_OTP, PRI_OCP			
Control Interfaces (std).	USB, RS232, RS485 (A/B)	USB, RS232 RS485 (A/B), LAN			
Optional Interface	GPIB	LAN + GPIB			

MODEL	CPS106	CPS110	CPS115
AUX I/O (Option)			
DIGITAL I/O			
TTL Inputs	Output ON/OFF, KEEP OFF, RESET, RECALL SETUP 1-7 (3 bits)		
Relay Contacts	3 sets, PASS, FAIL (contact closure)		
Connector Type	20 Position dual row compression		
ANALOG			
Voltage Input	Modes: SYNC or ANALOG, RMS. SET		
Connector Type	BNC		

	MODEL	CPS120, CPS130, CPS140, CPS150			
	AUX I/O (Option)				
Same as for CPS106 ~ CPS115 and adds:					
	Relay Contacts	Adds 1 set			
	System Interface Bus				
	Modes Parallel	4 units max. for higher power			
	Series	2 units max. for 600V output			
	Three Phase	3 units in Delta or Wye Configuration			

TECHNICAL SPECIFICATIONS (Continued...)

MODEL	CPS106 CPS110	CPS115	CPS120	CPS130	CPS140	CPS150
MECHANICAL & ENVIRONMENTAL SPECIFICATIONS						
Dimensions (My Hy D)	432 x 87 x 520 mm		432 x 133 x 520 mm	432 x 177 x 520 mm		
Dimensions (W x H x D)	17" x 3.425" x 20.5"		17" x 5.24" x 20.5"	17" x 7" x 20.5"		
Shipping Size (W x H x D)	744 x 241 x 594 m	nm	597 x 276 x 694 mm	597 x 321 x 694 mm		m
Shipping Size (W X H X D)	29.3" x 9.5" x 23.4	1"	23.5" x 10.9" x 27.3"	23.5" x 12.6" x 27.3"		
Rack Mount	Width w/Handles & Rack Ear Kit = 483 mm / 19". Shelf or L-Bracket Support Required			d		
Weight Net	15.9 Kg / 35 lbs		21Kg / 47.2 lbs	29 Kg / 63.9 lbs		
Shipping	19 Kg / 42 lbs		24.4Kg/53.8lbs	32 Kg / 70.5 lbs		
Operating Environment						
Temperature Operating	0° to 40° C / 32° to 104° F					
Storage	-40° to 85° C / -40° to 185° F					
Fan Cooled	Temperature controlled. Front intake rear exhaust. Fan noise 73 dBA at max. fan speed					
Temperature Coefficient	Voltage: 100ppm/°C, Current: 300ppm/°C, Frequency: 100ppm/°C					
Rel. Humidity	5% to 95% non-condensing					
Altitude Operating	2000 m / 6550 feet					

MODEL	All Models		
REGULATORY COMPLIANCE			
Emissions	CE marked per EMC Directive 2014/30/EU/EN61326-1:2013 Class A for emissions and immunity as required for CE Mark. FCC verification for conformity for CFR 74 Part 15 of FCC rules		
Safety	CE marked per LVD Directive 2014/35/EU/EN61010-1, third edition as required for CE Mark		
CE Mark	Installation Over voltage Category II, Pollution Degree 2, Class II Equipment, indoor use only		
UL Listing	CSA NRTL certified for US and Canada to CAN/CSA-22.2 No. 61010-1-12, UL 61010-1 Third Edition		
Isolation Voltage	3000Vac Input to Output, 1500Vac Input to Chassis		
RoHS	Meets EU Directive 2011/65/EU for restriction of hazardous substances in Electrical and Electronic Equipment		

MODEL FEATURES COMPARISON

FEATURES	STANDARD (S)	ENHANCED (E)
AC Mode	•	•
DC Mode	•	•
AC+DC Mode	•	•
Frequency Range	15-1000Hz	15-1200Hz
Dual AC Voltage Ranges 150/300 Vac	•	•
Dual DC Voltage Ranges 212/425 Vdc	•	•
Arbitrary Waveforms	•	•
Waveform Synthesis from Front Panel	•	•
Transient List Mode	•	•
Measurements	•	•
Harmonic Analysis & THD		•
Programmable Impedance		•
IEC411	•	•
IEC413		•
IEC414		•
IEC428		•
Triac Function		•
LAN	•	•
USB	•	•
GPIB	option	option
RS232	•	•
RS485	•	•

SHIP KIT CONTENTS

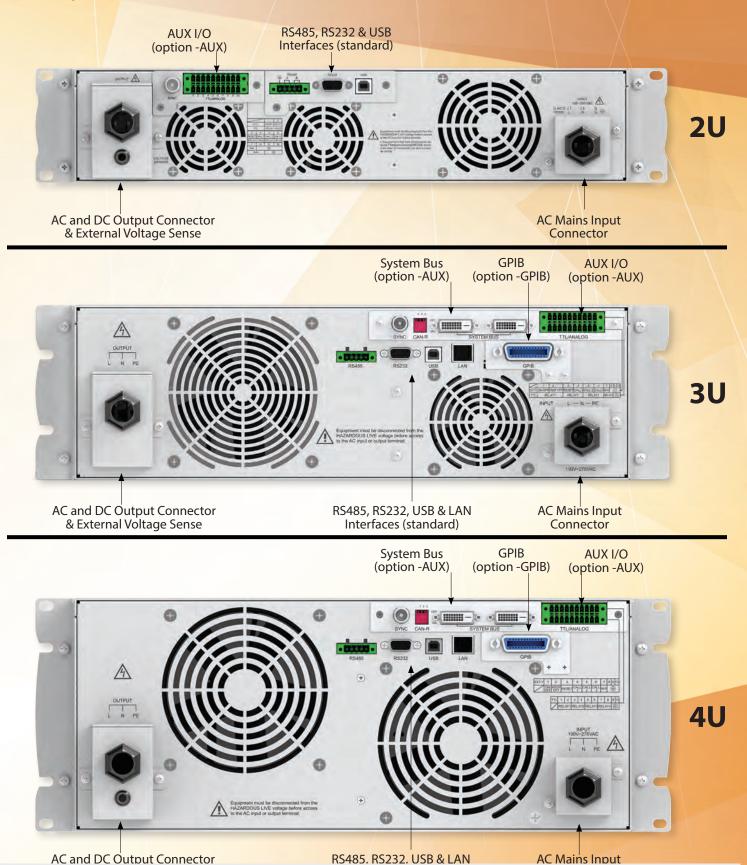
ITEMS INCLUDED	QTY
Rack mount Handles (removable)	2
Output Terminals Safety Cover	1
Input Terminals Safety Cover	1
Screws to install Rack mount Handles	12
RS232 Serial Cable, 1 meter	1
LAN Cat-5 Cable, 1 meter	1
USB Cable, 1 meter	1
Option -GPIB / LAN+GPIB, GPIB Cable	1
Option - AUX, DVI Cable	1
Option -EXT, BNC Cable	1



Rear Panel Connectors

All input power and load connections are made at the rear panel. AC or DC output is available on the same output terminal connector. Safety covers for AC input and AC/DC output connectors are included with each unit.

Digital remote control interfaces are also located on the rear panel. Installed options provide additional connectors.



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ORDERING INFORMATION

STANDARD MODELS	DESCRIPTION	AC INPUT	RACK HEIGHT
CPS106S	AC&DC Power Source, 600VA, USB/RS232/RS485	90 - 265 Vac, 1ø	2U / 3.5" / 89 mm
CPS110S	AC&DC Power Source, 1000VA, USB/RS232/RS485	90 - 265 Vac, 1ø	2U / 3.5" / 89 mm
CPS115S	AC&DC Power Source, 1500VA, USB/RS232/RS485	100 - 265 Vac, 1ø	2U / 3.5" / 89 mm
CPS120S	AC&DC Power Source, 2000VA, USB/RS232/RS485/LAN	190 - 265 Vac, 1ø	3U / 5.25" / 133 mm
CPS130S	AC&DC Power Source, 3000VA, USB/RS232/RS485/LAN	190 - 265 Vac, 1ø	4U / 7.0" / 178 mm
CPS140S	AC&DC Power Source, 4000VA, USB/RS232/RS485/LAN	190 - 265 Vac, 1ø	4U / 7.0" / 178 mm
CPS150S	AC&DC Power Source, 5000VA, USB/RS232/RS485/LAN	190 - 265 Vac, 1ø	4U / 7.0" / 178 mm

ENHANCED MODELS	DESCRIPTION	AC INPUT	RACK HEIGHT
CPS106E	AC&DC Power Source, 600VA, USB/RS232/RS485	90 - 265 Vac, 1ø	2U / 3.5" / 89 mm
CPS110E	AC&DC Power Source, 1000VA, USB/RS232/RS485	90 - 265 Vac, 1ø	2U / 3.5" / 89 mm
CPS115E	AC&DC Power Source, 1500VA, USB/RS232/RS485	100 - 265 Vac, 1ø	2U / 3.5" / 89 mm
CPS120E	AC&DC Power Source, 2000VA, USB/RS232/RS485/LAN	190 - 265 Vac, 1ø	3U / 5.25" / 133 mm
CPS130E	AC&DC Power Source, 3000VA, USB/RS232/RS485/LAN	190 - 265 Vac, 1ø	4U / 7.0" / 178 mm
CPS140E	AC&DC Power Source, 4000VA, USB/RS232/RS485/LAN	190 - 265 Vac, 1ø	4U / 7.0" / 178 mm
CPS150E	AC&DC Power Source, 5000VA, USB/RS232/RS485/LAN	190 - 265 Vac, 1ø	4U / 7.0" / 178 mm

OPTIONS	DESCRIPTION	COMPATIBLE WITH MODELS
-LAN+GPIB	LAN and GPIB Interface. (Replaces standard interfaces)	CPS106, CPS110, CPS115
-GPIB	GPIB Interface	CPS120, CPS130, CPS140, CPS150
-EXT	External Input & Auxiliary I/O	CPS106, CPS110, CPS115
-AUX	Auxiliary I/O, Series, Parallel & Multi-phase mode	CPS120, CPS130, CPS140, CPS150



CPS100 2U Model shown with Optional LAN+GPIB Interface

