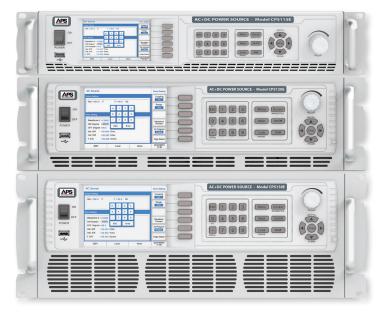


CPS 100 Series

Single-Phase AC & DC Power Source 600 VA/W to 5000 VA/W





CPS 100 Series: Designed for Advanced Testing of Low Power Applications

The CPS100 Series is a powerful yet cost effective single phase AC and DC power programmable power source.

Designed using state-of-the-art Digital Signal Processing, these power sources support a wide range of AC and DC tests with **excellent performance and reliability**, the CPS100 units are versatile with a wide range of 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 operate from 100V to 265V universal AC input power.
- Models of 2000VA and higher can operate from single phase 230V or split phase 208VAC.

Key Specifications

- 600VA/W TO 5000VA/W
- Dual Voltage Ranges (High/Low)
- AC: 0 150 V / 0 320 V; DC: 0 212 V / 0 424 V
- 15 1000 Hz (S); 15 1200 Hz (E)
- Programmable AC, DC or AC+DC
- Constant Power Voltage Range from 72% to F.S.
- Programmable Frequency & Start/Stop Phase Angle
- Programmable Current & Power Limit Protection
- Intuitive Color Touch Screen

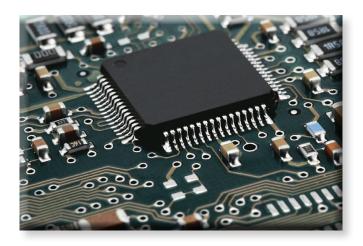
- Total of 15 Measurement Functions in One Screen
- Low Voltage Distortion
- High Crest Factor and Peak Current Capability
- List, Pulse and Step Mode Transient Capability for Line Distortion Simulation
- Sine Wave, Harmonics Library, User Waveforms
- USB, RS232, RS485 Interfaces Standard
- LAN or GPIB Options
- CE Mark

Model:	CPS106	CPS110	CPS115	CPS120	CPS130	CPS140	CPS150
Power:	600W	1000W	1500W	2000W	3000W	4000W	5000W
0-150Vac	4.8 A	8 A	13.8 A	16 A	27.6 A	32 A	46 A
0- 300Vac	2.4 A	4 A	6.9 A				
0- 320Vac				8 A	13.8 A	16 A	23 A
Height	2U			3U		4U	

Value & Performance with Modern Technology

The **CPS100 Series** precision power source 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 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.



Test a Wide Range of Applications

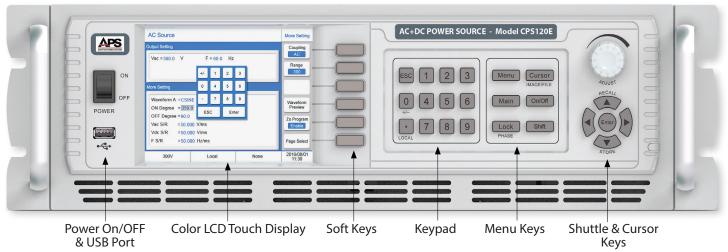
With power levels from 600VA to 5000VA per unit and paralleling capability, a wide range of present and future power demands can be met. **Put the CPS100 Series to the test!**



EMC Compliance Testing

Adaptive Power Systems: A PPST Solutions Company

Easy to Use Interface



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.

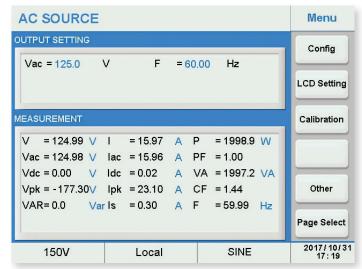
The large color LCD allows visualization of waveforms as well as a wide assortment of precision AC and DC measurements.

Mode and Voltage Range Selection



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

AC MODE



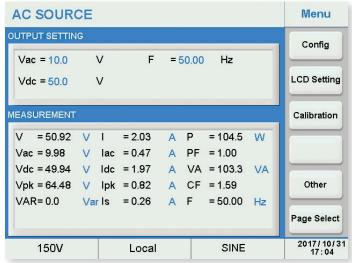
AC Voltage & Frequency Setting and Measurements

DC MODE



DC Voltage Setting and Measurements

AC+DC MODE



AC+DC Voltage, Frequency Setting and Measurements

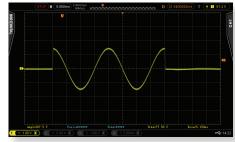
Transient Programming - Line Distortion Simulation

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

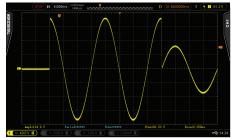
simulated with the CPS100 power sources for either AC or DC power applications. For AC applications, start and stop phase angles can be programmed for each transient step as needed. Below are some AC output samples for each of the three transient modes.



TRANSIENT LIST MODE



TRANSIENT PULSE MODE

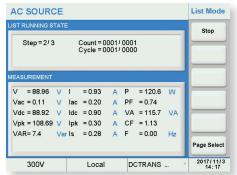


TRANSIENT STEP MODE

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

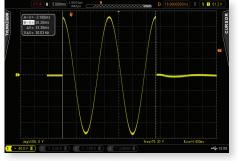
Voltage & Frequency Slew Rates

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.

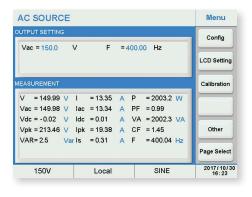
AC voltage changes can be set to occur at any specific phase angle from 0.0° through 359.9° for precise event occurrence. The example here shows a 100Vac two cycle event



started at 90° and terminated at 90° after two cycles.

Integrated Power Meter

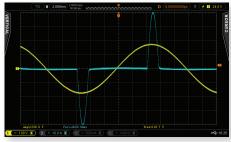
The bottom portion of each setting screen displays up to 15 measurements simultaneously. The order in which these are displayed can be rearranged if needed for best viewing.



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

High Current Crest Factor

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.

www.ppstsolutions.com

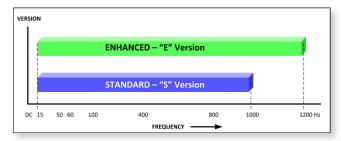
Enhanced Version CPS100E MODELS

The Enhanced (E Suffix) CPS100 models offer an extensive list of additional features and capabilities compared. 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.

- IEC 61000-4-11, 4-13, 4-14 and 4-28 Tests
- · Programmable L and R output impedance
- · Pass/Fail Test Mode
- Harmonic & THD Measurements for V and I
- TRIAC dimmer mode

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	•	•
Harmonic Waveforms Library (fixed)	•	•
Waveform Synthesis from Front Panel	•	•
Transient List Mode	•	•
Measurements	•	•
Harmonic Waveform Synthesis		•
Harmonic Analysis & THD Measurements		•
Programmable Impedance		•
IEC411	•	•
IEC413		•
IEC414		•
IEC428		•
Triac Function		•
LAN	option	option
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 % = 0.00 Fundamental = 113.79 V Compose 150 Percent Waveform Preview 75 Edit Page Select 2017/11/3 14:34 150V

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.

AC SO	URCE					Harmonic Measurement
HARMONIC	MEASURE	MENT SE	TTING			
THD:	= 14.4	%	DC	= 0.00	V	Stop
Funda	amental =	113.79	V			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	
9	3.9	22	0.0	35	0.0	E 414
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	
13	0.0	26	0.0	39	0.0	Page Select
14	0.0	27	0.0	40	0.0	
150	150V Loca		ocal	RUN	NING	2017/11/3 14:34

Harmonic Measurements Table Data

IEC 61000-4 Power Immunity Tests



AC SOURCE							IEC 4-11	
IEC 4-11 VO	EC 4-11 VOLT DIPS & SHORE INTERUPTIONS							
Voltage Dips = Class 2 Volt Range = 300 V								
Coun		= 3						
Unom	1	= 23	0.0					
Frequ	ency	= 50.	.00					Diagram
Step	%	Cycle	Start	Degree	Repeat	Inter	val	
1	0	0.5	0.0	0	3	10	s	Save
2	0	1.0	0.0	0	3	10	s	
3	70	25.0	0.0	•	3	10	s	
								Page Select
300	300V Lo			cal	S	INE		2017/11/9 12:35



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:

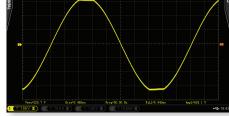
IEC 61000-4-11 Voltage Dips, Interrupts and Variations¹ IEC 61000-4-13 Harmonics and Inter harmonics

IEC 61000-4-14 Voltage Fluctuations

IEC 61000-4-28 Frequency Variations Note 1: Pre-compliance only

E VERSION







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

IEC 61000-4-13 Flattop Curve Test

IEC 61000-4-14 Voltage Fluctuations Test

Graphical User Interface for Windows

A Windows 10 compatible GUI control program can be downloaded to control any CPS Series models using one of its communication interfaces. The CpsGui provides full control over all output settings and displays all available measurements in numeric form as well as in a set of strip charts. Transient programming is made easy using an Excel type data entry grid.

Also included are test screens for IEC 61000-4-11, IEC 61000-4-13, IEC 61000-4-14 and IEC 61000-4-28.

CpsGui Transient Programming

CpsGui IEC 61000-4-11 Voltage Dips & Interruptions

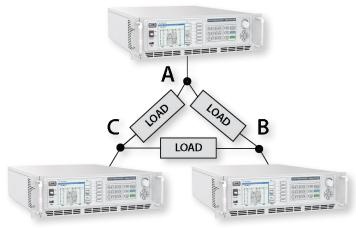
Versatile Multi-Configurations¹

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 Master/Slave bus. This master/slave control mode is supported by all CPS100 models and broadens the use of these power sources to a wider spectrum of applications than just a single unit does.

Parallel Mode: More Current



Three-Phase Delta (3-WIRE) Loads



Note 1: Multi-unit operation requires the -AUX Option.

External Analog Input Option

When equipped with the -EXT (CPS106 ~CPS115) or -AUX (CPS120~CPS150) option, the power source 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.

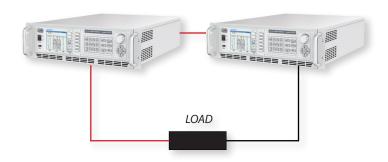
The external analog input must be Enabled for use. Input voltage range is ±10Vpk or 0-10Vdc.

The BNC input can also be configured as a SYNC input to synchronize the power source to an external clock.

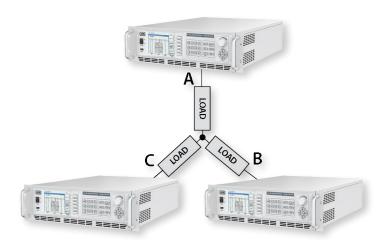
The master/slave bus connects the master unit to two or more slaves and allows programming and read-back to be controlled from the master unit. The user can select the desired configuration mode on the master unit as Series, Parallel or Three Phase mode.

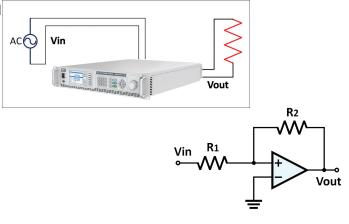
All phase synchronization and scaling is accomplished transparently.

Series Mode: More Voltage



Three-Phase WYE (4-WIRE) Loads





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

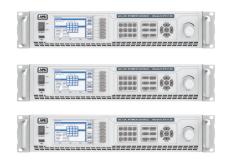
MODEL	CPS106	CPS110	CPS115	CPS120	CPS130	CPS140	CPS150
INPUT VOLTAGE & CURRENT SPECIFICATIONS							
AC Input Voltage	90 - 2	65 Vac	100 - 265 Vac	190 - 265 Vac, Single Phase (L, N, G)			
Phases	1 Phase, 2W+G			1 Phase, 2W+G / 2 Phase L-L + G			
Line Frequency		47 - 63 Hz		47 - 63 Hz			
Max. AC Current	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 SF	PECIFICATIONS					
Voltage	AC Low / High	0 - 150 Vac / 0 - 300 Vac 320 Vac available below 200 Hz on 2kVA to 5kVA CPS Models				
Ranges	DC Low / High	0 - 212 Vdc /	/ 0 - 424 Vdc			
3	Resolution	0.1	I V			
	Accuracy	± (0.3% settin	ng + 0.3% F.S.)			
Waveforms		Harmoni	uare, Clipped Sine, cs library defined Harmonics			
	Range		5 - 1000 Hz, 5 - 1200 Hz			
Frequency	Resolution	0.1 Hz 15.0 - 99.9 Hz / 1 Hz 100 Hz - 1000 Hz / 5Hz 1001 Hz - 1200 Hz				
	Accuracy	± 0.1% of setting	± 0.03% of setting			
c /c.	Range	0 - 359.9°				
Start/Stop Phase	Resolution	± 1° @ 45 - 65 Hz				
1 Hase	Accuracy	±1%, 45	5- 65 Hz			
Load Dogula	ation	± 0.1% F.S. RL,	DC, 15-100 Hz			
Load Regula	ation	± 0.5% F.S. R _L , 100.1-1200 Hz				
External Vol	tage Sense	Remote sense, Max Vdrop 5.0V				
Line Regula	tion	± 0	.1 V			
Harmonic D (Full Resistiv	istortion (THD) e Load)		80-140Vac in Low Vac in High Range			
		70.1-500Hz: < 1% @ 80-140Vac in L Range, @ 160-280Vac in High Ran				
		501-1000Hz: < 1% @ Range, @ 160-280	100-140Vac in Low Vac in High Range			
		1001-1200Hz: < 2% @ 100-140Vac in Lo Range, @ 160-280Vac in High Range				
Continued in	n next column					

OUTPUT SP	OUTPUT SPECIFICATIONS (Continued)				
Ripple & No	se (rms)	L: < 700 mVrms @ 20Hz-1MHz BW			
		H: < 1100 mVrms @ 20Hz-1MHz BW			
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
PROGRAMI	MABLE FUNCTION	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			
PROGRAMI	MABLE IMPEDA	NCE			
Pango	Resistance	0Ω-1Ω			
Range	Inductance	200 uH - 1 mH			
HARMONICS & INTER HARMONICS					
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		CPS106	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		0.4% setting + 1 (0.4% setting + 1		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	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	Calculated, 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	Iculated, √(VA² - \	N ²)		

MODEL		All Models				
MEASUREMENT SPECIFICATIONS-V, F, P						
	AC Range	0 - 320 Vac				
Voltago	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				
Tactor	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	USB, RS232, RS485 (A/B)				
Optional Interface	LAN + GPIB (Replaces Std. I/Fs) LAN, GPIE				

MODEL		CPS106	CPS110	CPS115	
Option -EX	Option -EXT: External I/O				
DIGITAL I/O					
TTL Inputs		Output ON/OFF, KEEP OFF, RESET, RECAL SETUP 1-7 (3 bits)		•	
Relay Conta	icts	3 sets, PASS, FAIL (contact closure)			
Connector Type		20 Position dual row compression			
ANALOG					
Voltage Inp	ut	Modes: SYNC or ANALOG, RMS SET			
Connector Type		BNC			
Option -MS	SB: Master/S	lave Bus			
Modes	Parallel	4 units max. for higher power		r power	
	Series	2 units max. for 600V output			
Three Phase		3 units in D	elta or Wye Co	nfiguration	

MODEL CPS120, CPS130, CPS140, CP			
Option -Al	JX: Auxiliary	I/O and Master/Slave Bus	
Same as -EXT option for CPS106 ~ CPS115 but adds:			
Relay Contacts Adds 1 set		Adds 1 set	
Includes Master/Slave 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	MECHANICAL & ENVIRONMENTAL SPECIFICATIONS							
D: : ()M II D)		432 x 87 x 520 mm		432x133x520mm	432 x 177 x 520 mm		n	
Dimensions (W	X П X D)	17" x 3.425" x 20.5"		17"x5.24"x20.5"	17" x 7" x 20.5"			
Shipping Size (W v H v D)	74	744 x 241 x 594 mm		597x276x694mm	597 x 321 x 694 mm		n
Shipping Size (WX FIX D)	2	29.3" x 9.5" x 23.4	,	23.5"x10.9"x27.3"		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						
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 Env	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				d		
Temperature Co	oefficient	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			
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	•	•
Harmonic Waveforms Library (fixed)	•	•
Waveform Synthesis from Front Panel	•	•
Transient List Mode	•	•
Measurements	•	•
Harmonic Waveform Synthesis		•
Harmonic Analysis & THD Measurements		•
Programmable Impedance		•
IEC411	•	•
IEC413		•
IEC414		•
IEC428		•
Triac Function		•
LAN option	opt	ion
USB	•	•
GPIB option	opt	ion
RS232	•	•
RS485	•	•

Feature Comparison Table Standard versus Enhanced version models

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



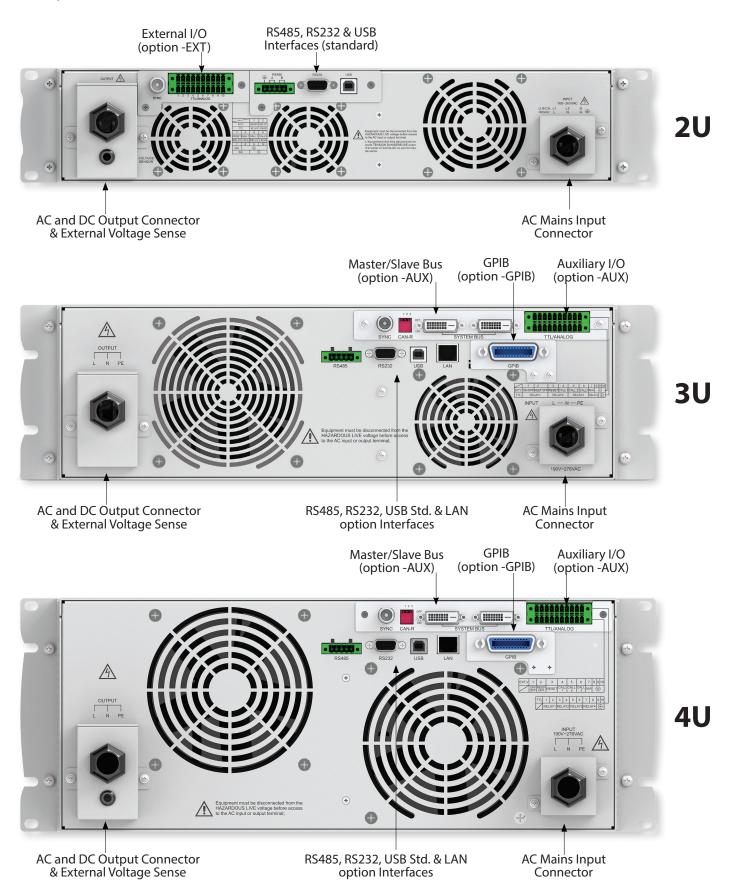
Ship Kit - Content excluding options

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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.



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	190 - 265 Vac, 1ø	3U / 5.25" / 133 mm
CPS130S	AC&DC Power Source, 3000VA, USB/RS232/RS485	190 - 265 Vac, 1ø	4U / 7.0" / 178 mm
CPS140S	AC&DC Power Source, 4000VA, USB/RS232/RS485	190 - 265 Vac, 1ø	4U / 7.0" / 178 mm
CPS150S	AC&DC Power Source, 5000VA, USB/RS232/RS485	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	190 - 265 Vac, 1ø	3U / 5.25" / 133 mm
CPS130E	AC&DC Power Source, 3000VA, USB/RS232/RS485	190 - 265 Vac, 1ø	4U / 7.0" / 178 mm
CPS140E	AC&DC Power Source, 4000VA, USB/RS232/RS485	190 - 265 Vac, 1ø	4U / 7.0" / 178 mm
CPS150E	AC&DC Power Source, 5000VA, USB/RS232/RS485	190 - 265 Vac, 1ø	4U / 7.0" / 178 mm

OPTIONS	DESCRIPTION	COMPATIBLE WITH MODELS	
-LAN+GPIB	LANandGPIBInterface.(ReplacesUSB,RS232,RS485interface)		
-EXT	External Input & Auxiliary I/O (Mutually exclusive with - MSB)	CPS106, CPS110, CPS115	
-MSB	Master/Slave Bus Interface (Mutually exclusive with -EXT)		
-LAN	LAN Interface		
-GPIB	GPIB Interface	CPS120, CPS130, CPS140, CPS150	
-AUX	Auxiliary I/O, Series, Parallel & Multi-phase mode		



CPS106 2U Model shown with Optional LAN+GPIB Interface

New Product Warranty: One (1) year.

Worldwide Service & Support

Adaptive Power Systems' customer support is second to none. Our Customer Support Program provides the training, repair, calibration, and technical support services that our customers value. Customers can rely on us for excellent support before, during and after the sale with support and service centers around the world.

NORTH & SOUTH AMERICA EUROPE

Irvine, USA Phone: +1(888) 239-1619

PPST Solutions, Inc.

Caltest Instruments GmbH. Kappelrodeck, Germany Phone: +49(0)7842-99722-00

UNITED KINGDOM Caltest Instruments, LTD.

Hampshire, UK Phone: +44(0)1483 302 700

Email: info@caltest.co.uk

tory specifications and are traceable to NIST (National Institute of Standards and Technology).

Complete calibration and repair services are offered at

our US, European and Chinese manufacturing facilities

(see contact info below). Calibrations are to original fac-

PPST Shanghai Co. Ltd. Shanghai, China Phone: +86-21-6763-9223 Email: info@ppst.com.cn



PPST Solutions, Inc.

2802 Kelvin Ave, Suite 100, Irvine CA 92614 Direct: 888-239-1619 • Fax: 949-756-0838

Email: sales@ppstsolutions.com

www.adaptivepower.com www.ppstsolutions.com

