AN IKONIX BRAND

Powering Production.™

Manual • Automated • Programmable

OUR STORY

Since 1978 EEC has been providing AC Power Sources for the power conversion industry. Our commitment to quality, innovation, and customer service has helped set the expectation for the industry. In 2020 we introduced the 8500 Series Power Source, the world's highest power density single phase AC Source. As of 2021 we joined the Ikonix Family to become an Ikonix brand, where we continued to innovate and shape the power conversion industry.

CUSTOMER HAPPINESS PROMISE

We aim to provide an amazing experience and quality testers that last a long time. If you're not satisfied with your power source, return it within 45 days for a full refund. Calibrate annually with us, or one of our authorized partners, and we'll extend your warranty an additional year for the service life of your power source, and at least five years after discontinuation. If it breaks during that time, we promise to fix it for free (unless abuse or excessive damage is present). When your power source reaches the end of its service life, we'll responsibly recycle it and give you a discount on a replacement.

* Not applicable for APCA only products.

5 YEAR WARRANTY

Your new power source is warranted to be free from defects in workmanship and material for a period of (5) years from date of shipment.

**5 year warranty is valid on any model purchased in 2021 or after.

2 YEAR WARRANTY

Applied to eec APAC only product including 6900S series, 6700 series and SE 7441.

ONGOING SUPPORT

We work to provide the best service and support in the industry. With decades of industry experience we are the pros you can trust to help you be compliant to NRTL standards. We'll work closely with you to help you achieve your goals. We've built a worldwide network of knowledgeable partners, so you're covered no matter where you are.

A TIMELINE OF OUR HISTORY

A HISTORY OF INNOVATION

1978 EEC is founded in Taipei City, Taiwan.

1979 Introduced the CFC Series AC power source and become the first AC power Source/Inverter professional manufacturer in Taiwan.

1988 Introduced the CFC-100W Series Digital AC power sources.

1991 The first Ikonix investment in EEC.

EEC became the sole manufacturer of Battery Charges for the Taiwan military – General Headquarters of Combined Service Force.

1994 Collaboration with Associated Research, Inc. (An Ikonix Brand) to become an ODM partner.

2001 Expanded into Suzhou, China and Japan.

2002 Introduced the 6300/6400/6500 High Power Switch Mode Power Supplies.

2008 Moved the Taipei headquarters to a larger facility in Taipei Neihu Technology Park.

2009 Announced the 61000 Series Programmable Power Source.

2020 Introduced the 8500 Series Power Source – the world's highest power density single phase AC source.

The final Ikonix purchase of all EEC shares.

2021 EEC joins the Ikonix family to become an Ikonix Brand.

CAPABILITIES & FEATURES

PRODUCT REFERENCE CHART

	Output Power Capability							Output Configurations		
Model	500VA	1.25kVA	2kVA	3kVA	4kVA	5kVA	6kVA	1Φ	1Φ3W	3Φ
400XAC Series										
430XAC				■				■	■	■
460XAC							■	■	■	■
8500 Series										
8505	■							■		
8512		■						■		
8520			■					■		
8530				■				■		
8540					■			■		
8560							■	■		
6700 Series*										
6705	■							■		
6710		1kVA						■		
6720			■					■		
6730				■				■		
6750						■		■		
6900S Series*										
6905S	■							■		
6910S		1kVA						■		
6920S			■					■		
6930S				■				■		
6950S						■		■		

300/600/520* = 300V phase 1Ø, 600V split 1Ø, 520V 3Ø
* (APAC Only)

	Output Capabilities of V, Hz & A			General Features		
Model	Voltage Output Max	Frequency Output Range	Max A @ ≤110V/220V (per phase)	PC Control	CE Mark	Free GUI Available
400XAC Series						
430XAC	300/600/520*	40-1000	9.2A/4.6A	■	■	PowerTRAC
460XAC	300/600/520*	40-1000	18.4A/9.2A	■	■	PowerTRAC
8500 Series						
8505	310	5.0-1200	5.0A/2.5A	■	■	PowerTRAC
8512	310	5.0-1200	12.5A/6.25A	■	■	PowerTRAC
8520	310	5.0-1200	20A/10A	■	■	PowerTRAC
8530	310	5.0-1200	30A/15A	■	■	PowerTRAC
8540	310	5.0-1200	40A/20A	■	■	PowerTRAC
8560	310	5.0-1200	60A/30A	■	■	PowerTRAC
6700 Series*						
6705	300	45-500	4.2A/2.1A	■		PowerTRAC
6710	300	45-500	8.4A/4.2A	■		PowerTRAC
6720	300	45-500	16.8A/8.4A	■		PowerTRAC
6730	300	45-500	25.2A/12.6A	■		PowerTRAC
6750	300	45-500	42A/21A	■		PowerTRAC
6900S Series*						
6905S	310	40-450	4.6A/2.3A	Option		
6910S	310	40-450	9.2A/4.6A	Option		
6920S	310	40-450	18.4A/9.2A	Option		
6930S	310	40-450	27.6A/13.8A	Option		
6950S	310	40-450	46A/23A	Option		

* (APAC Only)

BROWSE OUR POWER SOURCES

8500 Series

Programmable AC Power Source

The EEC 8500 Series is the most power dense and functionality rich power source in our history, giving you improved capability, functionality, and a reduced footprint all in one series. This series is manufactured or simulating common grid faults, voltage dips, and other power abnormalities. The 8500 Series provides an output voltage up to 310VAC and an output frequency ranging from 5 Hz – 1,200 Hz making it the obvious solution for all kinds of applications. Not to mention, an enhanced interface to all models completely designed with the end-user in mind. Our 8500 Sources can be configured as a simple AC Power Source in MANUAL mode, as an upgraded option with Standard mode or incorporating all functions with Advanced Mode. Advanced mode adds the benefits of a sweep of voltage, frequencies, transients, and DC bias over the course of a single sequence or several different tests. The 8500 Series includes the following models: 8505, 8512, 8520, 8530, 8540, & 8560.

Features

- 14 pre-configured waveforms allow you to simulate nearly any abnormal condition on your DUT by simply selecting the waveform you would like to output.
- With expanded output voltage to 310VAC and output frequency from 5Hz to 1200Hz, the 8500 provides a single, simple solution to meet a wide variety of testing applications.
- Advanced mode option allows you to easily simulate voltage surges, voltage drops, voltage pulses, voltage sweeps, DC bias, and frequency sweeps to help make meeting the specific needs of your testing application easier than it has ever been.
- High power density with a reduced overall footprint offers you the flexibility you need to use your 8500 Series power source in either a bench top or rack mount application.
- Easily upgrade and keep your command set from your 6000, 7000, or 300XAC Series with the legacy program mode.

Applicable Industries

- Aerospace
- Appliance
- Laboratory
- Networking
- System Integrator
- Lighting
- Medical

EEC Benefits

5 YEAR WARRANTY

Standard

USB

LAN

Options

RS-232 (OPT)

GPIB (OPT)

PowerTRAC AVAILABLE

IVI DRIVER AVAILABLE

Modes

INPUT	MANUAL MODE	OPT 02 STANDARD MODE	OPT 01 ADVANCED MODE
Manual Operation	•	•	•
PC Interface (USB/LAN standard, optional RS-232, GPIB)		•	•
PowerTRAC Compatibility		•	•
Voltage, Frequency, Transient, and DC Bias Sweeps			•

Specifications – 8500 Series

8500 Series							
MODEL			8505	8512	8520	8530	8540	8560
AC OUTPUT								
Phase			1Ø2W					
Power Rating			500VA	1250VA	2kVA	3kVA	4kVA	6kVA
Voltage	Range		0 - 310V, 155/310V Auto Range					
	Resolution		0.1V					
	Accuracy		±(0.2% of setting + 3counts)				±(0.2% of setting + 6counts)	
Max. Current (r.m.s)	0 - 155V		5A@100V	12.5A@100V	20A@100V	30A@100V	40A@100V	60A@100V
	0 - 310V		2.5A@200V	6.25A@200V	10A@200V	15A@200V	20A@200V	30A@200V
Frequency	Range		DC, 5 - 1200Hz Full Range Adjust					
	Resolution		0.1Hz at 0.0 - 999.9Hz , 1Hz at 1000 - 1200Hz					
	Accuracy		±0.03% of setting(≥ 15Hz) , ±0.3% of setting(<15Hz)					
Total Harmonic Distortion (THD)			≤ 0.3% @ 50/60Hz (Full Resistive Load)					
Crest Factor			≥ 3					
Inrush Current			4					
Line Regulation			± 0.1V					
Load Regulation			±0.2V,<1s response time					
DC OUTPUT								
Power rating			300W	750W	1200W	1800W	2400W	3600W
Voltage	Range		0 - 420V, 210/420V Auto Range					
	Resolution		0.1V					
	Accuracy		±(0.2% of setting + 3counts)			±(0.2% of setting + 6counts)		
Max. Current (r.m.s)	0 - 210V		3.0A@100V	7.5A@100V	12.0A@100V	18.0A@100V	24.0A@100V	36.0A@100V
	0 - 420V		1.5A@200V	3.75A@200V	6.0A@200V	9.0A@200V	12.0A@200V	18.0A@200V
Ripple and Noise (r.m.s)	Range	L	< 700mV				< 800mV	
		H	< 700mV				< 800mV	
Ripple and Noise (p-p)			< 6.0Vp-p				< 7.0Vp-p	
Load Regulation			±0.2V,<1s Ωresponse time					

Specifications – 8500 Series

MODEL		8505	8512	8520	8530	8540	8560
SETTINGS							
Start/End Angle	Range	0-359					
	Resolution	1					
Current Hi Limit (OC Fold=OFF) OC Fold Back (OC Fold = ON)	0 - 155V	0.05-5.00A	0.05-12.50A	0.05-20.00A	0.10-30.00A	0.10-40.00A	0.10-60.00A
	0 - 310V	0.05-2.50A	0.05-6.25A	0.05-10.00A	0.10-15.00A	0.10-20.00A	0.10-30.00A
	Resolution	0.01A					
	Accuracy	± (2.0% of setting + 4 counts)					
OC Fold Back Response Time		< 1.4s					
Time	Range	1.0 - 999.9h/ 1.0 - 999.9m /1.0 - 999.9s /0.2 - 999.9ms					
	Resolution	0.1h/ 0.1m/ 0.1s/ 0.1ms					
	Accuracy	± (0.1% + 0.1 h)/ ± (0.1% + 0.1 m)/ ± (0.1% + 0.1 s)/ ± (0.1% + 0.1 ms)					
Time unit		h, m, s, ms					
Ramp up	Range	0.1 - 999.9s, 0 = OFF					
	Resolution	0.1s					
	Accuracy	± (0.1% + 1 Cycle) at Output frequency ≤ 10Hz/ ± (0.1% + 0.1 s) at Output frequency > 10Hz					
INPUT							
Phase		1Ø					1Ø or 3Ø
Voltage		100 - 240 V ± 10%			200 - 240 V ± 10%		1Ø/3Ø3W: 200-240V±10% 3Ø4W: 346 - 416V ± 10%
Max. Current		8A	18A	30A	22A	30A	1Ø :45A/3Ø3W: 38A 3Ø4W: 22A
Frequency		50 / 60 Hz					
Power Factor		≥ 0.93	≥ 0.97				

Specifications – 8500 Series

MODEL			8505	8512	8520	8530	8540	8560
MEASUREMENT								
Voltage(AC)	Range		0 - 310V, 155/310V Auto Range					
	Resolution		0.1V					
	Accuracy		±(0.2% of reading + 3counts) at voltage > 5V				±(0.2% of reading + 6counts) at voltage > 5V	
Voltage(DC)	Range		0 - 420V, 210/420V Auto Range					
	Resolution		0.1V					
	Accuracy		±(0.2% of reading + 3counts) at voltage > 5V				±(0.2% of reading + 6counts) at voltage > 5V	
Current	Range	L	0.050 - 1.200A	0.050 - 5.000A		-		
		Resolution	1.00 - 6.25A	4.00 - 15.62A	4.00 - 25.00A	0.10 - 37.50A	0.10 - 50.00A	0.10 - 75.00A
	Resolution	L	0.001A			-		
		H	0.01A					
	Accuracy	L	± (1% of reading + 10counts) at CF < 3			-		
		H	± (0.5% of reading +8counts)			± (0.5% of reading +12counts)		
Frequency	Range		0.0 - 1200Hz					
	Resolution		0.1Hz / 1Hz					
	Accuracy		±0.1Hz @ 5 - 999.9Hz. / ±1Hz @ 1000 - 1200Hz					
Power (AC,DC)	Range	L	0.0 - 75.0W	0.0 - 300.0W		-		
		H	60 - 625W	240 - 1563W	240 - 2500W	0 - 3750W	0 - 5000W	0 - 7500W
	Resolution	L	0.1W			-		
		H	1W					
	Accuracy	L	± (1% of reading +10 counts) at PF ≥ 0.35 and voltage > 5V	± (2% of reading +15 counts) at PF ≥ 0.35 and voltage > 5V		-		
		H	± (1% of reading +5 counts) at PF ≥ 0.35 and voltage > 5V	± (1% of reading +10 counts) at PF ≥ 0.35 and voltage > 5V		± (1% of reading +20 counts) at PF ≥ 0.35 and voltage > 5V		
Power Factor	Range		0.000 - 1.000					
	Resolution		0.001					
	Accuracy		W/VA, Calculated and displayed to three significant digits					
Power Apparent (VA)	Range	L	0.0 - 75.0VA	0.0 - 300.0VA		-		
		H	60 - 625VA	240 - 1563VA	240 - 2500VA	0 - 3750VA	0 - 5000VA	0 - 7500VA
	Resolution	L	0.1VA			-		
		H	1VA					
	Calculated Formula		V×A , Calculated value					
Peak Current Measurement	Range		0.0 - 20.0Apk	0.0 - 50.0Apk	0.0 - 80.0Apk	0.0 - 120.0Apk	0.0 -160.0Apk	0.0 -240.0Apk
	Resolution		0.1A					
	Accuracy		± (0.5% of reading +8counts)				± (0.5% of reading +12counts)	
Reactive Power Measurement	Range	L	0.0 - 75.0VAR	0.0 - 300.0VAR		-		
		H	60 - 625VAR	240 - 1563VAR	240 - 2500VAR	0 - 3750VAR	0 - 5000VAR	0 - 7500VAR
	Resolution	L	0.1VAR			-		
		H	1VAR					
	Calculated Formula		$\sqrt{(VA)^2 - (W)^2}$, Calculated value					
Crest Factor Measurement	Range		0.00 - 10.00					
	Resolution		0.01					
	Accuracy		Ap / A					

Specifications – 8500 Series

MODEL		8505	8512	8520	8530	8540	8560
GENERAL							
PLC Remote Control		Input:Output ON, Output OFF/Reset, Output Verify, Interlock,File Recall M1 through M7, Trigger Output: Fail, Test-in-Process					
Rear Input		Terminal Block					
Memory	Manual	10 x 100 (file x sequence) / MANUAL only 10 file no sequence					
	Standard / Advanced	100 x 100 (file x sequence) / MANUAL, STEP, PULSE only 100 file no sequence					
Sync Signal/ Ext Trigger	Manual / Standard	ON/OFF					
	Advanced	ON / START / END / BOTH / OFF / EVENT, Output Signal 5V ,BNC type					
Display		4.3" TFT LCD					
Protection		OCP, OVP, OPP, OTP, LVP, RCP and FAN.					
Interface	Manual	Only PLC Remote					
	Standard / Advanced	Standard USB, PLC remote, LAN, Analog / Option GPIB, RS-232					
Eeciency (at Full load)		≥ 74%	≥ 81%	≥ 84%	≥ 83%	≥ 84%	≥ 84%
Response Time (Tr/Tf)		275-400usec (Typical)					
Electromagnetic compatibility (EMC)		Complies with the requirements of the following directive and standards. EMC Directive 2014/30/EU EN 55011:2016/A1:2017 (Group 1, Class A), EN 61326-1:2013, EN 61326-2-1:2013, EN 61000-3-11:2000, EN 61000-3-12:2011					
Safety		Complies with the requirements of the following directive and standards. Low Voltage Directive 2014/30/EU, EN 61010-1					
Op. / Non-Op. Temp. / Humidity		0 to 40°C/-40 to 75°C/20 to 80%RH					
Dimension (W x H x D), mm		430 x 88 x 500	430 x 88 x 500	430 x 88 x 500	430 x 88 x 500	430 x 176 x 500	430 x 176 x 500
Weight		15KG	15KG	15KG	15KG	28KG	28KG
STANDARD ACCESSORIES							
Interlock Disable Key (1505)		X1					
USB Cable		X1					
Shorting bar		X1					

Subject to change without prior notice.

400XAC Series

3 Phase AC Power Sources

With a unique feature set and competitive price point, our 400XAC Series provides 3Ø AC power in a single box. Our exclusive SmartCONFIG feature allows you to switch from 1Ø to 3Ø or DC output with the push of a button. This maximizes your investment while giving you the AC power that your application needs. The 400XAC Series consists of two models: the 430XAC is a 3 kVA AC power source and the 460XAC is a 6 kVA AC power source.

Features

- Exclusive SmartCONFIG feature allows for push button switch of 1Ø, 3Ø, or DC output.
- Single phase input power requirements.
- 50 built-in memory locations with 9 test steps.
- Built-in power factor correction (PFC).
- Advanced metering circuits monitor voltage, current, peak current, power, apparent power, reactive power, power factor, and crest factor.
- External voltage sensing for accurate metering.
- Transient feature simulates voltage variations, brownouts, and transient voltage conditions.
- Programmable starting and ending angle of the output sine wave.
- Rack mount handle kit included.

Applicable Industries

Aerospace

Appliance

Laboratory

Motor

EEC Benefits

5 YEAR WARRANTY

Standard

USB

RS-232

Options

LAN (OPT)

GPIB (OPT)

Start Output PowerTRAC AVAILABLE

DRIVER AVAILABLE

Specifications – 400XAC Series

400XAC Series				
MODEL			430XAC	460XAC
INPUT				
Phase			1Ø or 3Ø	1Ø or 3Ø
Voltage			1Ø : 200~240 VAC ± 10% 3Ø3W : 200~240 VAC ± 10% 3Ø4W : 346~416 VAC ± 10%	1Ø : 200~240 VAC ± 10% 3Ø3W : 200~240 VAC ± 10% 3Ø4W : 346~416 VAC ± 10%
Frequency			47 - 63 Hz	
AC OUTPUT				
Power Rating	1Ø2W		3000 VA	6000 VA
	1Ø3W		Total 2000 VA (1000 VA per phase)	Total 4000 VA (2000 VA per phase)
	3Ø4W		Total 3000 VA (1000 VA per phase)	Total 6000 VA (2000 VA per phase)
	DC		3000 VA	6000 VA
Max. Current (RMS)	1Ø2W	5- 150 V	27.6 A @ ≤110 V	55.2 A @ ≤110 V
		5 - 300 V	13.8 A @ ≤220 V	27.6 A @ ≤220 V
	1Ø3W	5 - 150 V	9.2 A @ ≤110 V for per phase	18.4 A @ ≤110 V for per phase
		5 - 300 V	4.6 A @ ≤220 V for per phase	9.2 A @ ≤220 V for per phase
	3Ø4W	5 - 150 V	9.2 A @ ≤110 V for per phase	18.4 A @ ≤110 V for per phase
		5 - 300 V	4.6 A @ ≤220 V for per phase	9.2 A @ ≤220 V for per phase
Inrush Current (peak)	1Ø2W	5 - 150 V	110.4 A	220.8 A
		5 - 300 V	55.2 A	110.4 A
	1Ø3W	5 - 150 V	36.8 A for per phase	73.6 A for per phase
		5 - 300 V	18.4 A for per phase	36.8 A for per phase
	3Ø4W	5 - 150 V	36.8 A for per phase	73.6 A for per phase
		5 - 300 V	18.4 A for per phase	36.8 A for per phase
Phase			1Ø2W, 1Ø3W, 3Ø4W, provided option	
THD (Total Harmonic Distortion)			<0.5% (Resistive Load) at 40.0~70.0 Hz and output voltage within the 80~140 VAC at Low Range or the 160~280 VAC at High Range. <1% (Resistive Load) at 70.1~1000 Hz and output voltage within the 80~140 VAC at Low Range or the 160~280 VAC at High Range.	
Crest Factor			≥3	
Line Regulation			± 0.1 V	
Load Regulation (Hardware)			± (1% of output +1 V) at Resistive Load, <400 µS response time	
Load Regulation (Software)			± 0.2 V, <1 S response time	
DC offset			≤ ± 5 mV	
Poly-phase Mode (3Ø4W) for Per Phase Output Setting				
Voltage	Range		5.0~300 VAC (phase), 8.6~520 VAC (line), 150/300 V Auto Range	
	Accuracy		± (0.2% of setting + 3 counts)	
Frequency	Range		40~1000 Hz Full Range Adjust	
	Accuracy		± 0.03% of setting	
Starting & Ending Phase Angle	Range		0~359°	
	Accuracy		±1°(45~65 HZ)	
Current Hi Limit	5V~150 V		0.01~9.20 A	0.01~18.40 A
	5V~300 V		0.01~4.60 A	0.01~9.20 A
	Accuracy		± (2.0% of setting + 2 counts)	
OC Fold Back Response Time			<1.4 s	
Ramp-Up Timer (second)	Range		0.0~999.9 s	
	Accuracy		± (0.1% + 0.05 sec)	
Ramp-Down Timer (second)	Range		0.0~999.9 s	
	Accuracy		± (0.1% + 0.05 sec)	
Delay Timer	Range		1 s~999.9 s 0.1 m~999.9 min 0.1 h~999.9 h	
	Accuracy		± (0.1% + 0.1 sec)	
Dwell Timer	Range		0, 1s~999.9 h (0=continuous)	
	Accuracy		± (0.1% + 0.1 sec)	
Poly-phase Mode (3Ø4W) for Per Phase Measurement				
Frequency	Range		0.0-1000 Hz	
	Resolution		0.1 Hz	
	Accuracy		± 0.1 Hz (501-1000 Hz Accuracy ± 0.2 Hz)	
Voltage	Range		0.0-420.0 V	
	Resolution		0.1 V	
	Accuracy		± (0.2% of reading + 3 counts)	

Specifications – 400XAC

MODEL			430XAC	460XAC
Poly-phase Mode (3Ø4W) for Per Phase Measurement (Continued)				
Current (RMS)	Range	L	0.005 A~1.200 A	0.005 A~2.400 A
		H	1.00 A~13.00 A	2.00 A~26.00 A
	Accuracy	L	± (1% of reading +5 counts) at 40.0-500 Hz ± (1% of reading +5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) ≤3.6 A	± (1% of reading +5 counts) at 40.0-500 Hz ± (1% of reading +5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) ≤7.2 A
		H	± (1% of reading +5 counts) at 40.0-500 Hz ± (1% of reading +5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) ≤27.6 A	± (1% of reading +5 counts) at 40.0-500 Hz ± (1% of reading +5 counts) at 501-1000 Hz, CF < 1.5 and Current (peak) ≤55.2 A
Current (peak)	Range		0.0 A~38.0 A	0.0 A~76.0 A
	Accuracy		± (1% of reading + 5 counts) at 40.0-70.0 Hz ± (1.5% of reading + 10 counts) at 70.1 - 500 Hz ± (1.5% of reading + 10 counts) at 501 - 1000 Hz and CF <1.5	
Power	Range	L	0.0 W~120.0 W	0.0 W~240.0 W
		H	100 W~1300 W	200 W~2600 W
	Accuracy	L	± (2% of reading +15 counts) at 40.0-500 Hz and PF ≥0.2 ± (2% of reading +30 counts) at 501-1000 Hz and PF ≥0.5	
		H	± (2% of reading +5 counts) at 40.0-500 Hz and PF ≥0.2 ± (2% of reading +15 counts) at 501-1000 Hz and PF ≥0.5	
Power Factor	Range		0 - 1.000	
	Accuracy		W / VA, Calculated and displayed to three significant digits	
Power Apparent (VA)	Range	L	0.0 VA~120.0 VA	0.0 VA~240.0 VA
		H	100 VA~1300 VA	200 VA~2600 VA
	Accuracy		V×A, Calculated value	
Power Reactive (Q)	Range	L	0.0 VAR ~ 120.0 VAR	0.0 VAR ~ 240.0 VAR
		H	0 VAR ~ 1300 VAR	0 VAR ~ 2600 VAR
	Accuracy		$\sqrt{(VA)^2 - (W)^2}$, Calculated value	
Crest Factor	Range		0 - 10.00	
	Accuracy		Ap / A, Calculated and displayed to two significant digits	
Poly-phase Mode (3Ø4W) for ∑ Measurement				
Frequency	Range		0.0-1000.0 Hz	
	Accuracy		± 0.1 Hz (501-1000 Hz Accuracy ±0.2 Hz)	
Voltage	Range		0.0-727.5 V	
	Calculated Formula		(A+B+C)/$\sqrt{3}$, Calculated and displayed to one significant digits	
Current (RMS)	Range	L	0.005A~1.200A	0.005A~2.400A
		H	1.00A~13.00A	2.00A~26.00A
	Calculated Formula	L	$\frac{\sum VA}{\sum V} / \sqrt{3}$	
		H		
Power	Range	L	0.0W~360.0W	0.0W~720.0W
		H	300W~3900W	600W~7800W
	Accuracy	L	A Power + B Power + C Power, Calculated value	
		H		
Power Factor	Range		0 - 1.000	
	Resolution		0.001	
	Accuracy		$\frac{\sum P}{\sum VA}$ Calculated and displayed to three significant digits	
Power Apparent (VA)	Range	L	0.0VA~360.0VA	0.0VA~720.0VA
		H	300VA~3900VA	600VA~7800VA
	Calculated Formula	L	$\sqrt{(\sum W)^2 + (\sum Q)^2}$	
		H		
Power Reactive (Q)	Range	L	0.0VAR~360.0VAR	0.0VAR~720.0VAR
		H	300VAR~3900VAR	600VAR~7800VAR
	Accuracy	L	A VAR + B VAR + C VAR, Calculated value	
		H		
Single-phase Mode (1Ø2W) Setting				
Voltage	Range		5.0~300 VAC, 150/300 V Auto Range	
	Resolution		0.1 V	
	Accuracy		± (0.2% of setting + 3 counts)	

Specifications – 400XAC Series

MODEL			430XAC	460XAC
Single-phase Mode (1Ø2W) Setting (Continued)				
Frequency	Range		40~1000 Hz Full Range Adjust	
	Resolution		0.1 Hz at 40.0~99.9 Hz , 1 Hz at 100~1000 Hz	
	Accuracy		± 0.03% of setting	
Starting & Ending Phase Angle	Range		0~359°	
	Resolution		1°	
	Accuracy		± 1°(45~65 HZ)	
Current Hi Limit	5V~150V		0.01~27.60 A	0.01~55.20 A
	5V~300V		0.01~13.80 A	0.01~27.60 A
	Accuracy		± (2.0% of setting + 2 counts)	
OC Fold Back Response Time			< 1.4 s	
Single-phase Mode (1Ø2W) Measurement				
Frequency	Range		0.0~1000 Hz	
	Accuracy		± 0.1 Hz (501~1000 Hz Accuracy ±0.2 Hz)	
Voltage	Range		0.0~420.0 V	
	Accuracy		± (0.2% of reading + 3 counts)	
Current (RMS)	Range		0.05 A~39.00 A	0.05 A~78.00
	Accuracy		± (1% of reading +5 counts) at 40.0~500 Hz ± (1% of reading +5 counts) at 501~1000 Hz, CF <1.5 and Current (peak) ≤82.8 A	± (1% of reading +5 counts) at 40.0~500 Hz ± (1% of reading +5 counts) at 501~1000 Hz, CF <1.5 and Current (peak) ≤165.6 A
Current (peak)	Range		0.0 A~114.0 A	0.0 A~228.0 A
	Accuracy		± (1% of reading + 5 counts) at 40.0~70.0 Hz ± (1.5% of reading + 10 counts) at 70.1~500 Hz ± (1.5% of reading + 10 counts) at 501~1000 Hz and CF<1.5	
Power	Range		0 W~3900 W	0 W~7800 W
	Accuracy		± (2% of reading +5 counts) at 40.0~500 Hz and PF ≥0.2 ± (2% of reading +15 counts) at 501~1000 Hz and PF ≥0.5	
Power Factor	Range		0 - 1.000	
	Accuracy		W / VA, Calculated and displayed to three significant digits	
Power Apparent	Range		0 VA~3900 VA	0 VA~7800 VA
	Accuracy		V×A, Calculated value	
Power Reactive (Q)	Range		0 VAR~3900 VAR	0 VAR~7800 VAR
	Accuracy		$\sqrt{(VA)^2 - (W)^2}$, Calculated value	
Crest Factor	Range		0 - 10.00	
	Accuracy		Ap / A, Calculated and displayed to two significant digits	
Poly-phase Mode (1Ø3W) for Per Phase Output Setting				
Voltage	Range		5.0~300 VAC (phase), 10.0~600 VAC (line), 150/300 V Auto Range	
	Accuracy		± (0.2% of setting + 3 counts)	
Frequency	Range		40~1000 Hz Full Range Adjust	
	Accuracy		± 0.03% of setting	
Starting & Ending Phase Angle	Range		0~359°	
	Accuracy		± 1°(45~65 HZ)	
Current RI Limit	5V~150V		0.01~9.20 A	0.01~18.40 A
	5V~300V		0.01~4.60 A	0.01~9.20 A
	Accuracy		± (2.0% of setting + 2 counts)	
OC Fold Back Response Time			<1.4 s	
Poly-phase Mode (1Ø3W) for Per Phase Measurement				
Frequency	Range		0.0-1000 Hz	
	Accuracy		± 0.1 Hz (501-1000 Hz Accuracy ±0.2 Hz)	
Voltage	Range		0.0-420.0 V	
	Accuracy		± (0.2% of reading + 3 counts)	
Current (RMS)	Range	L	0.005 A~1.200 A	0.005 A~2.400 A
		H	1.00 A~13.00 A	2.00 A~26.00 A
	Accuracy	L	± (1% of reading +5 counts) at 40.0-500 Hz ± (1% of reading +5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) ≤3.6 A	± (1% of reading +5 counts) at 40.0-500 Hz ± (1% of reading +5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) ≤7.2 A
		H	± (1% of reading + 5counts) at 40.0-500 Hz ± (1% of reading +5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) ≤27.6 A	± (1% of reading +5 counts) at 40.0-500 Hz ± (1% of reading +5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) ≤55.2 A

Specifications – 400XAC Series

MODEL			430XAC	460XAC
Poly-phase Mode (1Ø3W) for Per Phase Measurement (Continued)				
Current (peak)	Range		0.0 A~38.0 A	0.0 A~76.0 A
	Accuracy		± (1% of reading + 5 counts) at 40.0-70.0 Hz ± (1.5% of reading + 10 counts) at 70.1-500 Hz ± (1.5% of reading + 10 counts) at 501-1000 Hz and CF <1.5	
Power	Range	L	0.0 W~120.0 W	0.0 W~240.0 W
		H	100 W~1300 W	200 W~2600 W
	Accuracy	L	± (2% of reading +15 counts) at 40.0-500 Hz and PF ≥0.2 ± (2% of reading +30 counts) at 501-1000 Hz and PF ≥0.5	
		H	± (2% of reading +5 counts) at 40.0-500 Hz and PF ≥0.2 ± (2% of reading +15 counts) at 501-1000 Hz and PF ≥0.5	
Power Factor	Range		0 - 1.000	
	Accuracy		W / VA, Calculated and displayed to three significant digits	
Power Apparent (VA)	Range	L	0.0 VA~120.0 VA	0.0 VA~240.0 VA
		H	100 VA~1300 VA	200 VA~2600 VA
	Accuracy		VxA, Calculated value	
Power Reactive (Q)	Range	L	0.0 VAR~120.0 VAR	0.0 VAR~240.0 VAR
		H	0 VAR~1300 VAR	0 VAR~2600 VAR
	Accuracy		$\sqrt{(VA)^2 - (W)^2}$, Calculated value	
Crest Factor	Range		0-10.00	
	Accuracy		Ap / A, Calculated and displayed to two significant digits	
Poly-phase Mode (1Ø3W) for L1-L2 Measurement				
Frequency	Range		0.0-1000.0 Hz	
	Accuracy		± 0.1 Hz (501-1000 Hz Accuracy ± 0.2 Hz)	
Voltage	Range		0.0-840.0V	
	Accuracy		L1 Voltage + L2 Voltage, Calculated and displayed to one significant digits	
Current (RMS)	Range	L	0.005A~1.200A	0.005A~2.400A
		H	1.00A~13.00A	2.00~26.00A
	Calculated Formula	L	$\frac{\sum VA}{\sum V}$	
		H		
Power	Range	L	0.0W~240.0W	0.0W~480.0W
		H	200W~2600W	400W~5200W
	Accuracy	L	L1 Power + L2 Power, Calculated value	
		H		
Power Factor	Range		0 - 1.000	
	Calculated Formula		(L1 P + L2 P) / (L1 VA + L2 VA), Calculated and displayed to three significant digits	
Power Apparent (VA)	Range	L	0.0W~240.0VA	0.0W~480.0VA
		H	200W~2600VA	400W~5200VA
	Calculated Formula	L	$\sqrt{(\sum W)^2 + (\sum Q)^2}$ Calculated value	
		H		
Power Reactive (Q)	Range	L	0.0VAR ~ 240.0VAR	0.0VAR ~ 480.0VAR
		H	200VAR ~ 2600VAR	400VAR ~ 5200VAR
	Calculated Formula	L	L1 VAR + L2 VAR, Calculated value	
		H		
DC OUTPUT				
Max. Power			3000 W	6000 W
Max. Current	0-210 V		14.4 A	28.8 A
	0-420 V		7.2 A	14.4 A
Ripple and Noise (RMS)			Range: 5-210 V <700 mV Range: 5-420 V <1100 mV	
Ripple and Noise (p-p)			<4.0 Vp-p	
DC SETTINGS				
Voltage	Range		5-210 V / 5-420 V Selectable	
	Accuracy		± (0.2% of setting + 3 counts)	
Current Hi Limit	5 V-210 V		14.40 A	0.10 - 28.80 A
	5 V-420 V		7.20 A	0.10 - 14.40 A
	Accuracy		± (2.0% of setting + 2 counts)	
OC Fold Back Response Time			<1.4 s	

Specifications – 400XAC Series

MODEL		430XAC	460XAC
DC MEASUREMENT			
Voltage	Range	0.0-420.0 V	
	Accuracy	± (0.2% of setting + 5 counts)	
Current	Range	0.05 A~19.50 A	0.05 A~39.00 A
	Accuracy	± (1% of reading +5 counts)	
Power	Range	0 W~3900 W	0 W~7800 W
	Accuracy	± (2% of reading +5 counts)	
PROTECTION			
Software OCP		Over Current 110% of full rated current >1 second	
Output Short Shut Down Speed		<1 second	
Software OPP		When over Power 105 ~ 110% of full power >5 second. When over Power >110% of full power <1 second.	
Software OTP		Temperature over 95 degree C on the power amp and PFC heatsink	Temperature over 120 degree C on the power amp and PFC heatsink
Software OVP	L	When output frequency < 100Hz, maximum voltage deviation + 5V When output frequency 101-500Hz, maximum voltage deviation + 15V When output frequency 501-1000Hz, maximum voltage deviation + 20V	
	H	When output frequency < 100Hz, maximum voltage deviation + 10V When output frequency 101-500Hz, maximum voltage deviation + 30V When output frequency 501-1000Hz, maximum voltage deviation + 40V	
Software LVP	L	When output frequency < 100Hz, maximum voltage deviation -5V > 0.5 second When output frequency 101-500Hz, maximum voltage deviation -15V > 0.5 second When output frequency 501-1000Hz, maximum voltage deviation -20V > 0.5 second	
	H	When output frequency < 100Hz, maximum voltage deviation -10V > 0.5 second When output frequency 101-500Hz, maximum voltage deviation -30V > 0.5 second When output frequency 501-1000Hz, maximum voltage deviation -40V > 0.5 second	
Reverse Current Protection (RCP)		Over 75W	
GENERAL			
Transient (only for 40~70 Hz)		Trans-Volt 0.0-300.0 V Resolution 0.1 V Trans-Site 0°~359° Resolution 1° Trans-Time 0.5-999.9 mS Resolution 0.1 mS Trans-Cycle 0-9999, 0-Constant	
Operation Key Feature		Soft key, Numeric key, Rotary Knob	
Remote Input Signal		Test, Reset, Interlock, Recall program memory 1 through 7	
Remote Output Signal		Pass, Fail , Test-in Process	
Key Lock		Yes, Password Driven	
Memory		50 memories, 9 steps/memory	
Ext Trigger		START / END / BOTH / OFF in the Program mode, Output Signal 5 V, BNC type	
Alarm Volume Setting		Range: 0-9 ; 0 = OFF, 1 is softest volume, 9 is loudest volume.	
Graphic Display		240 x 64 dot resolution Monographic LCD/Contrast 9 Levels 1-9	
PFC		PF ≥0.97 at Full load	
Efficiency		≥78% (at Full load)	
Auto Loop cycle		0 = Continuous, OFF, 2~9999	
Over Current Fold Back		On/Off, Setting On when output current over setting Hi-A value it will fold back output voltage to keep constant output current is setting Hi-A value, Response time <1400ms	
Safety Agency		CE Listed	
Dimensions (W x H x D)		430 x 400.5 x 500 mm	
		16.93 x 15.77 x 19.69 in	
Net Weight		125.6 lbs (57 kg)	125.6 lbs (57 kg)
Operation Environment		0-40°/20-80% RH	

Subject to change without prior notice.

Why We Use Counts
EEC publishes some specifications using "counts" which allows us to provide a better indication of the power source's capabilities across measurement ranges. A count refers to the lowest resolution of the display for a given measurement range. For example, if the resolution for voltage is 1V then 2 counts = 2V.

6900S Series

AC Power Source

The 6900S Series AC Power Source provides clean, reliable power for precise testing of your electronic designs and prototypes. With an intuitive interface and flexible operation, it adapts effortlessly to diverse testing needs, from home appliances and power adapters to LEDs and laboratory applications. Offering a wide range of power selection options, the 6900S Series ensures comprehensive test coverage. Now featuring an optional RS-232 interface, it streamlines manufacturing automation, making your production process more efficient than ever.

Key Highlight

- Simulate worldwide AC power conditions with a wide and flexible combination of adjustments for output voltage ranges of 0- 310V and frequency range of 40-450Hz.
- High crest factor and inrush current capabilities provide more powerful sources.
- EEC proprietary Over Current Fold (OCF) function automatically aadjust voltages, maintaining current for activating the DUT.
- Superior clean power delivers low THD of 0.3% when powered at 50Hz or 60Hz.
- Effective cooling performance for a better reliability and maximum business uptime.
- Intuitive user interface design for easy parameter settings.
- Three fast recall settings to increase operational efficiencies.
- Dedicated LED indicator for better visibility and reading accuracy.
- Compact size, only 2U (89mm) height with 2kVA rating (6905S, 6910S, 6920S Models).
- Optional RS-232 interface simplifies automation, making it easier to integrate manufacturing processes.

Protection

Over Current Protection

Over Voltage Protection

Over Power Protection

Over Temperature Protection

Short Current Circuit

Safety and Productivity

Features

OCF

OC Fold

EEC Benefits

WARRANTY 2 YEAR WARRANTY

APAC Only

Options

RS-232

Specifications – 6900S Series (APAC Only)

6900S Series							
MODEL			6905S	6910S	6920S	6930S	6950S
AC OUTPUT							
Phase			1Ø				
Power Rating			500VA	1kVA	2kVA	3kVA	5kVA1
Voltage	Range		0 - 310V				
	Resolution		0.1V				
	Accuracy		±(1% of setting + 0.1% f.s)		±(1% of setting + 0.2% f.s)		
Max. Current (r.m.s)	0 - 155V		4.6A	9.2A	18.4A	27.6A	46.0A
	0 - 310V		2.3A	4.6A	9.2A	13.8A	23.0A
Frequency	Range		40 - 450Hz Full Range Adjust				
	Resolution		0.1Hz at 40.0 - 99.9Hz , 1Hz at 100 - 450Hz				
	Accuracy		±0.03% of setting				
Total Harmonic Distortion (THD)			< 0.3% at 110/220V & 50/60Hz (Resistive Load)				
Inrush Current			4 times rated Current(r.m.s)				
Crest Factor			3 times rated Current(r.m.s)				
Line Regulation			± 0.1V				
Load Regulation			±(0.5% of output + 0.5V) at Resistive Load				
INPUT							
Phase			1Ø				
Voltage			110/220VAc ± 10%		220VAc ± 10%		
Max. Current			10/5A	20/10A	20A	30A	50A
Frequency			47 - 63Hz				
Power Factor			≥ 0.67				
MEASUREMENT							
Voltage	Range		0.0 - 400.0V				
	Resolution		0.1V				
	Accuracy		±(1% of reading + 0.1% f.s)		±(1% of reading + 0.2% f.s)		
Current	Range	L	0.005 - 0.600A	0.005 - 1.200A	0.005 - 2.400A	-	-
		H	0.50 - 6.50A	1.00 - 13.00A	2.00 - 26.00A	0.05 - 39.00A	0.05 - 65.00A
	Resolution	L	0.001A			-	-
		H	0.01A				
	Accuracy	L	±(1% of reading + 0.005A) at voltage > 5V			-	-
		H	±(1% of reading +0.05A)				
Frequency	Range		0.0 - 450.0Hz				
	Resolution		0.1Hz				
	Accuracy		±0.1Hz				
Power	Range	L	0.0 - 60W	0.0 - 120W	0.0 - 240W	-	-
		H	50 - 650W	100 - 1300W	200 - 2600W	0 - 3,900W	0 - 6,500W
	Resolution	L	0.1W			-	-
		H	1W				
	Accuracy	L	±(2% of reading +1.5W)		±(2% of reading + 3W)	-	-
		H	±(2% of reading + 5W)		±(2% of reading + 10W)	±(2% of reading + 5W)	

Specifications – 6900S Series (APAC Only)

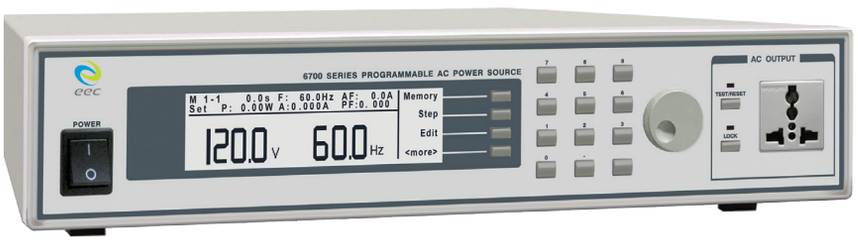
MODEL	6905S	6910S	6920S	6930S	6950S
GENERAL					
I/P Terminal	Terminal				
Memory	3 memories				
Display	Green LED				
Efficiency	≥ 78% (at Full Load)	≥ 80% (at Full Load)			
Protection	OCP, OVP, OPP, OTP, Short Circuit ; Alarm and shutdown				
Op./Non-Op. Temp./Humidity	0 to 40°C/-40 to 75°C/20 to 80%RH				
Dimension (W x H x D), mm	430 x 89 (111) x 410 (429)	430 x 89 (111) x 410 (429)	430 x 89 (111) x 510 (529)	430 x 222 (246) x 526 (536)	430 x 222 (246) x 526 (536)
Weight	18.2kg	18.2kg	30kg	65kg	65kg
INBOX ACCESSORIES					
Power Cable for 6905S, 6910S					

Subject to change without prior notice.

6700 Series

Linear Programmable AC Power Source

The 6700 Series Linear Programmable AC Power Source delivers clean, reliable power with versatile functionality. Its ultra-low noise design is ideal for sensitive applications such as networking communication, audio & video equipment, and surveillance systems. Experience precise and interference-free performance, ensuring optimal operation for your critical equipment.



Key Highlight

- 0.1mA/0.01W high resolution measurement feature (optional).
- EEC proprietary Over Current Fold (OCF) function automatically adjust voltages, maintaining current for activating the DUT.
- Ultra-low noise design on output voltage.
- Wide output voltage range of 0 - 600Vac and frequency range of 45 - 1000Hz (optional).
- Integrated with the latest high density power technologies with compact design; 1kVA with 89mm height only, which require less space for the tests.
- The rapid transient reaction allows the waveforms to restore within 100us whenever loads are either added or removed instantly.

Protection

Over Current Protection

Over Voltage Protection

Over Power Protection

Over Temperature Protection

Short Current Circuit

Safety and Productivity

Features

OC Fold

Continuous

Angle Setting

EEC Benefits

2 YEAR WARRANTY

APAC Only

Available Interface

USB

RS-232

GPIB (OPT)

Start Output

PowerTRAC™ AVAILABLE

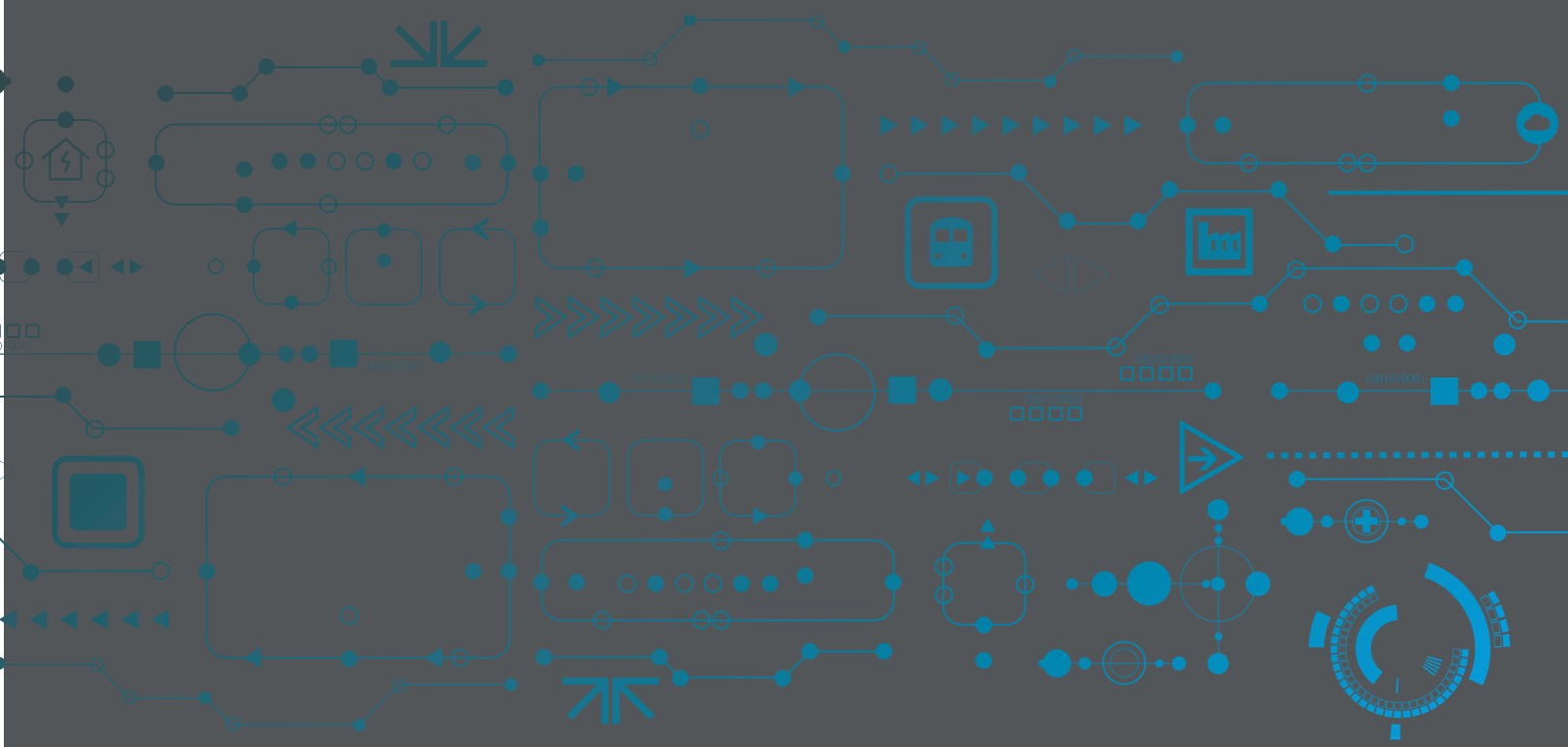
Specifications – 6700 Series (APAC Only)

6700 Series							
MODEL			6705	6710	6720	6730	6750
AC OUTPUT							
Phase			1Ø				
Power Rating			500VA	1kVA	2kVA	3kVA	5kVA
Voltage	Range		0 - 300V, 150/300V Auto or 0 - 600V, 300/600V Auto (Optional 0 - 600V)				
	Resolution		0.1/0.2V				
	Accuracy		±(0.5% of setting + 2 counts)				
Max. Current (r.m.s)	0 - 150V		4.2A	8.4A	16.8A	25.2A	42 A
	0 - 300V		2.1A	4.2A	8.4A	12.6A	21A
Max. Current (r.m.s) for Optional 0 - 600V	0 - 300V		2.1A	4.2A	8.4A	12.6A	21A
	0 - 600V		1.05A	2.1A	4.2A	6.3A	10.5A
Max. Current (r.m.s) for Optional 0 – 1kV	0 - 500V		-	2A	4A	-	-
	0 - 1kV		-	1A	2A	-	-
Frequency	Range		45 - 500Hz/45 - 1kHz (Optional 45Hz - 1kHz) Full Range Adjust				
	Resolution		0.1Hz at 45 - 99.9Hz, 1Hz at 100 - 1kHz				
	Accuracy		± 0.02% of setting				
Total Harmonic Distortion (THD)			< 0.3% at 110/220V & 50/60Hz (Resistive Load)				
Inrush Current			4 times rated Current (r.m.s)				
Crest Factor			4 times rated Current (r.m.s)				
Line Regulation			0.1% max for ± 10% line change				
Load Regulation			≤ 0.5% (Resistive Load)				
INPUT							
Phase			1Ø				
Voltage			115/230VAc ± 15%		230VAc ± 15%		
Max. Current			16/8A	30/16A	30A	50A	75A
Frequency			47 - 63 Hz				
Power Factor			0.7				
MEASUREMENT							
Voltage	Range		0.0 - 300.0V/0.0 - 600.0V	0.0-300.0V/0.0-600.0V/0-1kV		0.0-300.0V/0.0-600.0V	
	Resolution		0.1V/0.2V/1V				
	Accuracy		±(0.5% of reading + 2 counts)				
Current	Range	L	0.000 - 3.500A				0.000 - 7.000A
		H	3.00 - 35.00A				6.00 - 42.00A
	Resolution	L	0.001A				0.002A
		H	0.01A				0.02A
	Accuracy	L	±(0.5% of reading + 5counts) for 5 - 300V/±(0.5% of reading + 10 counts) for 5 - 600V, 5 - 1kV				
		H	±(0.5% of reading + 3 counts) at Voltage > 5V				
Current for Optional High Resolution Meter	Range		2.0 - 350.0mA		-	-	-
	Resolution		0.1mA		-	-	-
	Accuracy		±(0.6% of reading + 5counts) ±(1% of reading + 5counts) for Optional 0 - 600V		-	-	-
Frequency	Range		0.0 - 1000.0Hz				
	Resolution		0.1Hz				
	Accuracy		± 0.1Hz at 45.0 - 500.0Hz/± 0.5 Hz at 501.0 - 1000.0Hz				
Power	Range	L	0.0 - 350.0W				
		H	300 - 4000W				
	Resolution	L	0.1W				
		H	1W				
	Accuracy	L	±(0.6% of reading + 5 counts)/±(0.5% of reading + 30 counts)				
		H	±(0.6% of reading + 2 counts)/±(0.5% of reading + 5 counts)				

Specifications – 6700 Series (APAC Only)

MODEL	6705	6710	6720	6730	6750
GENERAL					
Surge/Drop	SD-Volt : 0.0 - 300.0V, Resolution : 0.1V SD-Site : 0 - 20ms at SD-Cont. : ON, 0 - 99ms at SD-Cont. : OFF, Resolution : 1ms SD-Time : 0 - 20ms at SD-Cont. : ON, 0 - 99ms at SD-Cont. : OFF, Resolution : 1ms SD-Cont. : ON/OFF				
Remote Input Signal Interface (Optional)	Test, Reset, Recall memory 1 through 7				
Remote Output Signal	Pass, Fail, Test-in Process				
I/P Terminal	Inlet	Terminal			
Memory	50 memories, 9 steps/memory				
Sync Output Signal	Output Signal 10V, BNC type, Between the sync signal and the output voltage will be 0.5ms time difference				
Display	240 x 64 dot resolution Monographic LCD/Contrast 9 Levels 1 - 9				
Efficiency	≥ 40% (at Full Load)				
Protection	OCP, OVP, OPP, OTP, LVP, Short Circuit ; Alarm and shutdown				
Interface	Standard USB & RS232, Optional GPIB, PLC Remote Input Card				
Op./Non-Op. Temp./Humidity	0 to 40°C/-40 to 75°C/20 to 80%RH				
Dimension (W x H x D), mm	430 x 89 (111.5) x 400	430 x 89 (111.5) x 560 (588)	430 x 268 (355) x 650 (730)	430 x 624 (711) x 650 (730)	430 x 624 (711) x 650 (730)
Weight	24kg	39kg	90kg	205kg	205kg
INBOX ACCESSORIES					
1224 USB Cable*1					

Subject to change without prior notice.



SAFETY TESTER
Reference Guide

SAFETY TESTER SELECTION GUIDE CHART

	Testing Items					
Series	AC Withstand	DC Withstand	Insulation Resistance	AC Ground Bond	DC Continuity	Others
SE Series*						
SE 7441	■	■	■	■	OPT	8W+8G Scanner

* (APAC Only)

	Safety and Productivity Features					Available Interfaces			
Series	Ramp High	Charge Low	Fast Discharge	ARC Detection	VERICHEK	USB	RS-232	GPIB	LAN
SE Series*									
SE 7441	■	■	■	■	■	■	■	OPT	OPT

* (APAC Only)

SE7441

Electrical Safety Analyzer

The SE 7441 Compact 4-in-1 Safety Analyzer combines cutting-edge safety features into one versatile device. With advanced ARC detection, precise ground bond measurements, and true negative voltage capabilities. Streamline your testing with one-click scanning, which simultaneously checks multiple points across up to 16 channels, boosting efficiency for multi-functional products. Ideal for today' s industrial environments, the SE 7441 features a user-friendly 4.3-inch touch panel and barcode data scanning, simplifying operations and maximizing productivity.

Key Highlight

- True Negative Voltage Insulation Resistance Technology (optional).
- Highly flexible and programmable testing parameters.
- Intuitive and user-friendly touch panel operation.
- EEC exclusive patent right on fast discharge function to help DUT expeditiously releases any excess electricity within 50ms.
- Compact 2U(89mm) design to save the testing spaces.
- Unmatched quality assurance with ARC detection capability eliminates poor gap spacing that can cause dielectric breakdowns.
- Built-in scanners up to 16 channel (optional).
- Provided with barcode interface, users can scan and capture data directly without connecting to a computer.

Safety and Productivity Features

- Continuous
- VERICHEK
- External Scanner
- Fast Discharge
- ARC Detection
- Smart GFI
- Ramp High
- Charge Low

EEC Benefits

WARRANTY 2 YEAR WARRANTY

APAC Only

Available Interface

- USB
- RS-232
- LAN (OPT)
- GPIB (OPT)

Start Output

SPACE-9180 AVAILABLE

Specifications – SE7441 (APAC Only)

SE Series		
MODEL		SE 7441
INPUT		
Voltage (AC)		200-240V±10%
Apparent Power		600VA
Frequency		50/60Hz ± 5%
AC WITHSTAND VOLTAGE		
Output Rating (AC)		5kV/40mA
Output Voltage Range		0-5.00kV
Voltage Resolution		0.01kV
Voltage Accuracy		±(1% of setting + 0.5% of Range)
Current Measurement Range (Total)		0.000-40.00mA
Current Resolution (Total)		0.001/0.01/0.1mA
Current Accuracy (Total)	0.000-4.000mA	±(2% of reading + 3 counts)
	3.50-100.0mA	±(2% of reading + 6 counts)
Current Measurement Range (Real)		0.000-40.00mA
Current Resolution (Real)		0.001/0.01mA
Current Accuracy (Real)	0.000-9.999mA	±(3% of reading + 50uA), All Ranges PF > 0.1, V > 250Vac
	10.00-99.99mA	
Output Frequency		50/60Hz ± 0.1%
Ramp Up Timer		0.1-999.9s
Ramp Down Timer		0.0-999.9s
Dwell Timer	Auto Range	0, 0.2-999.9s (0=continuous)
	Fixed Range	0, 0.1-999.9s (0=continuous)
Timer Resolution		0.1s
Timer Accuracy		±(0.1% of setting + 0.05s)
Output Waveform		Sine Wave, Crest Factor = 1.3-1.5
Output Regulation		±(1% of output + 5V), From no load to full load
Current Offset		0.000-40.00mA (Total current + current offset ≤ 40mA)
Arc Detection		The range is from 1-9 (9 is the most sensitive)
DC WITHSTAND VOLTAGE		
Output Rating (DC)		6kV/10mA
Output Voltage Range		0-6.00kV
Voltage Resolution		0.01kV
Voltage Accuracy		±(1% of setting + 0.5% of Range)
Current Measurement Range		0.0nA-10mA
Current Resolution		0.1nA/0.001uA/0.01uA/0.1uA/0.001mA/0.01mA
Current Accuracy	0.0-400.0nA	±(2% of reading + 10 counts) Low Range is ON.
	0.350-4.000uA	
	3.50-40.00uA	
	35.0-400.0uA	±(2% of reading + 2 counts)
	0.300-4.000mA	
	3.50-10.00mA	
Output Ripple		< 4% (6kV/10mA at Resistive Load)
Ramp Up Timer	Low range = OFF	0.4-999.9s
	Low range = ON	0.5-999.9s
Ramp Down Timer		0.0, 1.0-999.9s

Specifications – SE7441 (APAC Only)

MODEL		SE 7441
DC WITHSTAND VOLTAGE		
Dwell Timer		0, 0.4-999.9s (0=continuous)
Timer Resolution		0.1s
Timer Accuracy		±(0.1% of setting + 0.05s)
Charge Low Current		0.0-350.0uA
Discharge Timer		< 50ms for no load, < 100ms for capacitor load (all capacitance values in max load spec below)
Maximum Capacitive Load		1μF < 1kV, 0.75μF < 2kV, 0.5μF < 3kV, 0.08μF < 4kV, 0.04μF < 5kV, 0.015uF < 6kV
Current Offset		0.0-10mA (Total current + current offset ≤10mA)
Arc Detection		The range is from 1-9 (9 is the most sensitive)
INSULATION RESISTANCE		
Output Rating (DC)		6kV/50GΩ
Output Voltage Range		10-6000V
Voltage Resolution		1V
Voltage Accuracy		±(1% of setting + 0.5% of Range)
Resistance Measurement Range		0.100MΩ-50GΩ
Resistance Resolution		0.001/0.01/0.1/1MΩ
Resistance Accuracy	0.05-999.9MΩ under 10-29V	±(15% of reading + 2 counts)
	0.05-999MΩ under 30-499V	±(7% of reading + 2 counts)
	0.100-999.9MΩ under 500-6kV	±(2% of reading + 2 counts)
	1G-9.999GΩ under 500-6kV	±(5% of reading + 2 counts)
	10G-50GΩ under 500-6kV	±(15% of reading + 2 counts)
Ramp Up Timer		0.1-999.9s
Ramp Down Timer		0.0, 1.0-999.9s
Dwell Timer		0, 0.5-999.9s (0 = continuous)
Delay Timer		0.5-999.9s
Timer Resolution		0.1s
Timer Accuracy		±(0.1% of setting + 0.05s)
Charge Low Current		0.000-3.500μA
GROUND BOND		
Output Rating (AC)		32A/600mΩ/8V
Output Current		1.00-32.00A
Current Resolution		0.01A
Current Accuracy		±(2% of setting + 0.5% of range)
Output Voltage		3.00-8.00V
Voltage Resolution		0.01V
Voltage Accuracy		±(2 % of setting + 3 counts) O.C.
Lead Resistance Offset		0-200mΩ
Resistance Measurement Range		0-600mΩ
Resistance Resolution		1mΩ
Resistance Accuracy		±(2 % of reading + 2 counts)
Dwell Timer		0, 0.5-999.9s (0 = continuous)
Timer Resolution		0.1s
Timer Accuracy		±(0.1% of setting + 0.05s)

Specifications – SE7441 (APAC Only)

MODEL		SE 7441
CONTINUITY (Optional)		
Output Rating (DC)		1A for 1.000Ω, 0.1A for 10.00Ω, 0.01A for 100.0Ω, 0.001A for 1kΩ, 0.0001A for 10kΩ
Resistance Offset		0.000-10.00Ω,
Resistance Measurement Range		0.000-10kΩ
Resistance Resolution		0.001/0.01/0.1/1/1Ω
Resistance Accuracy	0.000 -1.000Ω	±(1% of reading + 3 counts)
	1.01-10.00Ω	
	10.1-100.0Ω	
	101-1kΩ	
	1.001k-10kΩ	
Dwell Timer		0.0, 0.4-999.9s (0 = continuous)
Timer Resolution		0.1s
Timer Accuracy		± (0.1% of setting + 0.05s)
GENERAL		
Remote Input Signal		Test, Reset, Interlock, Recall File 1 through 15
Remote Output Signal		Pass, Fail, Test-in-Process
Memory		2000 steps, Allow the user create different memories and steps. But each memory limit max. 200 steps and results
Display		4.3" Color Display (Touch Panel)
Interface[4]		Standard USB & RS232, Optional Ethernet, GPIB
Built-in Scanner Module		Yes
External Scanner port		Yes
Language		English/Traditional Chinese/Simplified Chinese
Op./Non-Op. Temp./Humidity		0 to 40°C/-40 to 75°C/20 to 80%RH
Dimension (W × H × D), mm		430 × 133 × 400
Weight		20kg
INBOX ACCESSORIES		

Power Cable (10A for SE 7430, SE 7440 & SE 7441; 15A for SE 7451 & SE 7452)*1; Fuse*1; 1101 Hipot Output Lead - Alligator Clip*1 & 1102 Hipot Return Lead - Alligator Clip*1 for SE 7430 & SE 7451; 1137 Ground Bond Output Lead - Alligator Clip (40A)*1 & 1138 Ground Bond Return Lead - Alligator Clip (40A)*1 for SE 7440, SE 7441 & SE 7452; 1109 Hipot Output Lead - Pin Connector*8 for SE 7441; 1224 USB Cable*1; 1505 Interlock Disable Key*1; USB Disk*1; Hook Terminal*20 for SE 7441

Subject to change without prior notice.

Ikonix Calibration

Ikonix has developed a comprehensive solution that not only provides top-quality, precise instruments but also ensures swift calibration, guaranteeing instrument accuracy and precision throughout its service life. Ikonix's calibration service is available in two types: ISO Calibration and Standard Calibration. We recommend Associated Research, SCI Electric Safety Tester, and EEC AC Power Source be returned annually for calibration and inspection at our A2LA Accredited ISO 17025 Calibration Lab.

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Extended Warranty: Annual calibration with Ikonix qualifies your Associated Research, EEC, and SCI branded products for an additional year of coverage beyond the original 5-year warranty* through the extended warranty program. This program also extends coverage for 5 years beyond the instrument's discontinuation date.

*APAC-only products come with a 2-year warranty. The extended warranty does not apply to EEC electrical safety testers sold before 2023. For further details, please contact our sales team.

Types of Calibration

ISO Calibration

Accredited calibrations provide measurement data and uncertainty traceable to the NIST. The Ikonix ISO 17025 calibration laboratory is accredited by the A2LA, and its reports are highly recognized internationally, making them vital to multinational companies and export-oriented industries. If an auditor visits your facility, you can present this calibration to them.

Standard Calibration

Standard Calibration is our base calibration type and provides a certificate stating that Associated Research, EEC, and SCI branded products are calibrated using standards traceable to the NIST.

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