

Powering Production.®



C: 4070 F

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.

*Annual calibration and inspection must be made in each successive year starting one year after the original purchase date in order to remain eligible for extended warranty coverage beyond the standard warranty period (five years).

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.

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

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CAPABILITIES & FEATURES

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PRODUCT REFERENCE CHART

		Outp	ut Powe	er Capak	oility		(Output Configuratio	ns
Model	500 VA	1.25 kVA	2 kVA	3 kVA	4 kVA	6 kVA	1 Phase	Split 1 Phase (2 Lines/1 Neutral)	3 Phase
430XAC				•			٠	٠	٠
460XAC						•	٠	٠	٠
8505	•						٠		
8512		•					٠		
8520			٠				٠		
8530				٠			٠		
8540					•		٠		
8560						•	٠		

	Outp	ut Capabilities of	V, Hz & A	Ge	neral Feat	ures
Model	Voltage Output Max	Frequency Output Range	Max A @ ≤110V/220V (per phase)	PC Control	CE Mark	Free GUI Available
430XAC	300/600/520*	40-1000	9.2A/4.6A	•	٠	•
460XAC	300/600/520*	40-1000	18.4A/9.2A	٠	٠	•
8505	310	5.0-1200	5.0A/2.5A	٠	٠	٠
8512	310	5.0-1200	12.5A/6.25A	٠	٠	٠
8520	310	5.0-1200	20A/10A	•	٠	٠
8530	310	5.0-1200	30A/15A	•	٠	٠
8540	310	5.0-1200	40A/20A	•	٠	•
8560	310	5.0-1200	60A/30A	٠	٠	•

 $\begin{aligned} x2 &= the number of sources required to achieve an output rating. \\ x3 &= the number of sources required to achieve an output rating and 3 phase. \\ 300/600/520^* &= 300V phase 100, 600V split 100, 520V 300 \end{aligned}$



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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.
- Legacy Mode allows you to keep your command set from your 6000, 7000, or 300XAC series.



Applicable Industries





Aerospace

Appliance





Laboratory

Networking





System Integrator

Liahtina



EEC Benefits



Standard USB/RS-232 Interface

Ethernet Interface

Options GPIB Interface





Modes

INPUT	MANUAL MODE	STANDARD MODE	ADVANCED MODE
Manual Operation	•	•	٠
PC Interface (USB/LAN standard, optional GPIB)		•	٠
PowerTRAC Compatibility		•	•
Voltage, Frequency, Transient, and DC Bias Sweeps			٠

Specifications – 8500

			8500 SPEC	IFICATIONS							
		MODEL	8505	8512	8520	8530	8540	8560			
			AC O	UTPUT							
		Phase			1Ø	2W					
	F	Power Rating	500VA	1250VA	2kVA	3kVA	4kVA	6kVA			
		Range		0 - 310V, 155/310V Auto Range							
Voltage		Resolution		0.1V							
		Accuracy		±(0.2% of set	ting + 3counts)	1	±(0.2% of sett	ing + 6counts			
Max. Current		0 - 155V	5A	12.5A	20A	30A	40A	60A			
(r.m.s)1		0 - 310V	2.5A	6.25A	10A	15A	20A	30A			
		Range		I	DC, 5 - 1200Hz F	ull Range Adjus	st				
Frequency		Resolution		0.1Hz	at 0.0 - 999.9Hz	, 1Hz at 1000 -	1200Hz				
		Accuracy ²		±0.03% of setting(≥ 15Hz) , ±0.3% of setting(<15Hz)							
	Total Harm	nonic Distortion (THD) ³		\leq 0.3% @ 50/60Hz (Full Resistive Load)							
	(Crest Factor4	≥ 3	≥ 3	≥ 3	2.5	≥ 3	2.5			
	Ir	nrush Current	4	4	4	3	4	3			
	Li	ne Regulation			± 0	.1V					
	Lo	ad Regulation ⁵	±0.2V,<1s response time								
			DC O	UTPUT							
	I	Power rating	300W	750W	1200W	1800W	2400W	3600W			
		Range		1	0 - 420V, 210/42	20V Auto Range	2	1			
Voltage		Resolution		0.1V							
		Accuracy	±(0.29	% of setting + 3	counts)	±(0.2%	% of setting + 60	ounts)			
Max. Current		0 - 210V	3.0A	7.5A	12.0A	18.0A	24.0A	36.0A			
(r.m.s)2		0 - 420V	1.5A	3.75A	6.0A	9.0A	12.0A	18.0A			
Ripple and Noise	Panaa	L		< 70)0mV		< 80	0mV			
(r.m.s)6	Range	Н		< 700mV				0mV			
	Ripple	e and Noise (p-p)6		< 6.0Vp-p < 7.0Vp-p							
	Lo	ad Regulation5			±0.2V,<1s re	sponse time					

Specifications – 8500

		8500 SPE	CIFICATIONS					
	MODEL	8505	8512	8520	8530	8540	8560	
		SET	TTINGS					
Start/End	Range	0-359						
Angle	Resolution	1						
Current Hi	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	
Limit	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	
(OC Fold=OFF)	Resolution			0.0	01A			
OC Fold Back (OC Fold = ON)	Accuracy			± (2.0% of set	ting + 4 counts)			
	OC Fold Back Response Time7			<	1.4s			
	Range		1.0 - 999.9	h/ 1.0 - 999.9m	/1.0 - 999.9s /0	2 - 999.9ms		
Time	Resolution	0.1h/ 0.1m/ 0.1s/ 0.1ms						
	Accuracy	$\pm (0.1\% + 0.1 \text{ h})/ \pm (0.1\% + 0.1 \text{ m})/ \pm (0.1\% + 0.1 \text{ s})/ \pm (0.1\% + 0.1 \text{ ms})$						
	Time unit	h, m, s, ms						
	Range	0.1 - 999.9s, 0 = OFF						
	Resolution	0.1s						
Ramp up	Accuracy	± (0.1% + 1 Cy	vcle) at Output f	requency ≤ 10⊦	Iz/ ± (0.1% + 0.	1 s) at Output fr	requency > 10Hz	
		II	NPUT					
	Phase			1Ø			1Ø or 3Ø	
	Voltage	$100 - 240 \vee \pm 10\%$ $200 - 240 \vee \pm 10\%$ $200 - 240 \vee \pm 10\%$ $30/4 W$:					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 ⁸	≥ 0.93			≥ 0.97			

Specifications – 8500

			8500 S	PECFICIATIONS				
MODEL			8505	8512	8520	8530	8540	8560
			MEA	SUREMENT				
	Ran	-	0 - 310V, 155/310V Auto Range					
Voltage(AC)	Resolu	ution	0.1V					
	Accur	acy2	±(0.2% of reading + 3counts) at voltage > 5V ±(0.2% of reading + 6counts) at voltage > 5V at voltage > 5V					
	Range				0 - 420V, 210/42	20V Auto Range		
Voltage(DC)	Resolution				0.1	1V		
voltage(DC)	Accuracy2		±(0.	2% of reading + 30	counts) at voltage >	• 5V		ling + 6counts) ge > 5V
	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
		L		0.001A			-	
Current ⁹	Resolution ³	Н	0.01A					
		L	± (1% of reading + 10counts) at CF < 3 -					
	Accuracy2					(0.5	-	
		Н	± (0.5	5% of reading +8cc	5% of reading +12c	ounts)		
	Ran	-			0.0 - 1			
Frequency	Resolu			. 0.4	0.1Hz		0011	
	Accuracy			±0.1Hz @ 5 - 999.9Hz. / ±1Hz @ 1000 - 1200Hz				
	Range	L	0.0 - 75.0W	0.0 - 3	00.0W		-	
		Н	60 - 625W	240 - 1563W	240 - 2500W	0 - 3750W	0 - 5000W	0 - 7500W
	Resolution	L		0.1W			-	
Power10		Н			1\	N		
(AC,DC)	Accuracy	L	\pm (1% of reading +10 counts) at PF \ge 0.35 and voltage > 5V	\pm (2% of reading +15 counts) at PF \geq 0.35 and voltage $>$ 5V			-	
		н	\pm (1% of reading +5 counts) at PF \ge 0.35 and voltage > 5V	\pm (1% of reading +10 counts) \pm (1% of reading +at PF \geq 0.35 and voltage > 5Vat PF \geq 0.35 and voltage > 5V			% of reading +20 cc ≥ 0.35 and voltage	
	Ran	ge	0.000 - 1.000					
Power Factor	Resolu	ution	0.001					
	Accu	racy	W/VA, Calculated and displayed to three significant digits					
		L	0.0 - 75.0VA	0.0 - 3	AV0.00		-	
	Range	Н	60 - 625VA	240 - 1563VA	240 - 2500VA	0 - 3750VA	0 - 5000VA	0 - 7500VA
Power Apparent		L		0.1VA			-	1
(VA)	Resolution	Н			1\	/Α		
	Calculated		1VA √V×A , Calculated value					
			0.0.20.041.	0.0 50.04-1			0.0.1(0.04-1	0.0.240.04-
Peak Current	Ran		0.0 - 20.0Apk	0.0 - 50.0Apk	0.0 - 80.0Apk	0.0 - 120.0Apk	0.0 -160.0Apk	0.0 -240.0Ap
Measurement	Resolu				0.1	IA		
	Accu	-		± (0.5% of read	-		± (0.5% of read	ling +12counts)
	Range	L	0.0 - 75.0VAR	0.0 - 30	0.0VAR		-	
Dog-to-p		Н	60 - 625VAR	240 - 1563VAR	240 - 2500VAR	0 - 3750VAR	0 - 5000VAR	0 - 7500VAR
Reactive Power Measurement	Resolutior	L		0.1VAR			-	
		Н			1V.	AR		
	Calculated Formula		$\sqrt{(VA)^2 - (VA)^2}$, Calculated value					
	Calculated			0.00 - 10.00				
	Calculated				0.00 -	10.00		
Crest Factor Measurement		ge			0.00 -			

Specifications – 8500

		8500 SP	ECFICIATIONS					
	MODEL	8505	8512	8520	8530	8540	8560	
		C	SENERAL					
	PLC Remote Control	Input:Out	Input:Output ON, Output OFF/Reset, Output Verify, Interlock,File Recall M1 through M7, Trigger Output: Fail, Test-in-Process					
	Rear Input	AC Outlet			Terminal Block			
Memory	Std.		10 x 100 (file	x sequence) / MAI	NUAL only 10 file n	o sequence		
wemory	emory Adv.		00 x 100 (file x sequ	uence) / MANUAL, s	STEP, PULSE only 1	00 file no sequenc	e	
Sync Signal/	Std.			ON/0	DFF			
Ext Trigger	Adv.		ON / START / EN	d / BOTH / OFF / E	VENT, Output Sigr	al 5V ,BNC type		
	Display			4.3" TF	T LCD			
	Protection	OCP, OVP, OPP, OTP, LVP, RCP and FAN.						
	Interface	Standard USB, PLC remote, LAN, Analog / Option GPIB, RS-232						
	Eeciency (at Full load) ¹¹	≥ 74%	$\begin{array}{c c c c c c c c c c c c c c c c c c c $				≥ 84%	
	Response Time (Tr/Tf) ¹²	275-400usec (Typical)						
Elect	romagnetic 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 61000-3-12:201						
	Safety	Complies with the requirements of the following directive and standards. Low Voltage Directive 2014/30/EU, EN 61010-1					ive 2014/30/EU,	
Op.	/ Non-Op. Temp. / Humidity ¹³			0 to 40°C/-40 to 7	5°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	
		STANDAR		5				
Int	erlock Disable Key (1505)			X	1			
	USB Cable			X	1			
	Shorting bar			X	1			
Р	ower Cord (125Vac/10A)	X1			-			

Specifications subject to change

400XAC

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





Standard

USB/RS-232 Interface

Options

GPIB Interface

Ethernet Interface





INPUT			430XAC	460XAC				
Phase			1Ø	1Ø or 3Ø				
Voltage			200 - 240 VAC	1Ø : 20~240 VAC ± 10% 3Ø3W : 200~240 VAC ± 10% 3Ø4W : 346~416 VAC ± 10%				
Frequency			////////////////////	7 - 63 Hz				
Frequency AC OUTPUT			47	/ - 03 nz				
	-	<i>C</i> (2))//	2000 \/A	(000)(A				
		Ø2W	3000 VA	6000 VA				
Power Rating		Ø3W Ø4W	Total 2000 VA (1000 VA per phase) Total 3000 VA (1000 VA per phase)	Total 4000 VA (2000 VA per phase)				
		DC	3000 VA	Total 6000 VA (2000 VA per phase) 6000 VA				
		5- 150 V	27.6 A @ <110 V	55.2 A @ ≤110 V				
	1Ø2W	5 - 300 V	13.8 A @ ≤220 V	27.6 A @ <220 V				
		5 - 150 V	9.2 A @ ≤110 V for per phase	18.4 A @ ≤110 V for per phase				
Max. Current (RMS)	1Ø3W	5 - 300 V	4.6 A @ ≤220 V for per phase	9.2 A @ ≤220 V for per phase				
		5 - 150 V	9.2 A @ ≤110 V for per phase	18.4 A @ ≤110 V for per phase				
	3Ø4W	5 - 300 V	4.6 A @ ≤220 V for per phase	9.2 A @ ≤220 V for per phase				
	5 - 150 V		110.4 A	220.8 A				
	1Ø2W	5 - 300 V	55.2 A	110.4 A				
Inrush Current		5 - 150 V	36.8 A for per phase	73.6 A for per phase				
(peak)	1Ø3W	5 - 300 V	18.4 A for per phase	36.8 A for per phase				
		5 - 150 V	36.8 A for per phase	73.6 A for per phase				
	3Ø4W	5 - 300 V	18.4 A for per phase	36.8 A for per phase				
Phase			1Ø2W, 1Ø3W, 3	3Ø4W, provided option				
THD (Total Harmor	nic Distorti	on)	at Low Range or the 1	Iz and output voltage within the 80~140 VAC 160~280 VAC at High Range.				
			<1% (Resistive Load) at 70.1~1000 Hz and output voltage withi	in the 80~140 VAC at Low Range or the 160~280 VAC at High Range.				
Crest Factor				>3				
Line Regulation				± 0.1 V				
Load Regul				istive Load, <400 μS response time				
Load Regu	lation (Soft	ware)		1 S response time				
DC offset			≤ ± 5 mV					
		J	430XAC	460XAC				
Voltage	Range		5.0~300 VAC (phase), 8.6~520 VAC (line), 150/300 V Auto Range					
	Accuracy	/	± (0.2% of s	setting + 3 counts)				
Frequency	Range			z Full Range Adjust				
	Accuracy	/	± 0.03% of setting					
Starting & Ending Phase Angle	Range		0~359°					
i nabe i ingle	Accuracy							
	Accuracy			(45~65 HZ)				
	5V~150 \							
Current Hi Limit		/	±1°((45~65 HZ)				
Current Hi Limit	5V~150 \	/	±1°(0.01~9.20 A 0.01~4.60 A	(45~65 HZ) 0.01~18.40 A				
Current Hi Limit OC Fold Back Resp	5V~150 V 5V~300 V Accuracy	/	±1°(0.01~9.20 A 0.01~4.60 A ± (2.0% of s	(45~65 HZ) 0.01~18.40 A 0.01~9.20 A				
OC Fold Back Resp Ramp-Up	5V~150 V 5V~300 V Accuracy	/	±1°(0.01-9.20 A 0.01-4.60 A ± (2.0% of s	(45~65 HZ) 0.01~18.40 A 0.01~9.20 A setting + 2 counts)				
OC Fold Back Resp	5V~150 V 5V~300 V Accuracy	/ / /	±1°(0.01-9.20 A 0.01-4.60 A ± (2.0% of s	(45~65 HZ) 0.01~18.40 A 0.01~9.20 A setting + 2 counts) <1.4 s				
OC Fold Back Resp Ramp-Up Timer (second) Ramp-Down	5V~150 V 5V~300 V Accuracy poonse Time Range	/ / /	±1°(0.01-9.20 A 0.01-4.60 A ± (2.0% of s 0.0 ± (0.1%	(45~65 HZ) 0.01~18.40 A 0.01~9.20 A setting + 2 counts) <1.4 s 0-999.9 s				
OC Fold Back Resp Ramp-Up Timer (second)	5V~150 V 5V~300 V Accuracy conse Time Range Accuracy	/ / 2 /	±1°(0.01-9.20 A 0.01-4.60 A ± (2.0% of s 0.0 ± (0.1% 0.0	(45~65 HZ) 0.01~18.40 A 0.01~9.20 A setting + 2 counts) <1.4 s 0~999.9 s % + 0.05 sec)				
OC Fold Back Resp Ramp-Up Timer (second) Ramp-Down	5V~150 V 5V~300 V Accuracy ponse Time Range Accuracy Range	/ / 2 /	$\pm 1^{\circ}($ 0.01-9.20 A 0.01-4.60 A $\pm (2.0\% \text{ of s})$ 0.0 $\pm (0.19)$ $\pm (0.19)$ $\pm (0.19)$ $\pm (0.19)$ $\pm (0.19)$ $\pm (0.19)$ $\pm (0.19)$ $\pm (0.19)$	(45~65 HZ) 0.01~18.40 A 0.01~9.20 A setting + 2 counts) <1.4 s 0~999.9 s % + 0.05 sec) 0~999.9 s				
OC Fold Back Resp Ramp-Up Timer (second) Ramp-Down Timer (second)	5V-150 V 5V-300 V Accuracy sonse Time Range Accuracy Range	/ / / / / / / / / / / / / / / / / / /	±1°(0.01-9.20 A 0.01-4.60 A ± (2.0% of s 0.0 ± (0.1% 0.0 ± (0.1% 0.1 m 0.1 m 0.1	(45-65 HZ) 0.01-18.40 A 0.01-9.20 A setting + 2 counts) <1.4 s 0-999.9 s % + 0.05 sec) 0-999.9 s % + 0.05 sec) s-999.9 s % + 0.05 sec) s-999.9 s				
OC Fold Back Resp Ramp-Up Timer (second) Ramp-Down Timer (second)	5V-150 \ 5V-300 \ Accuracy conse Time Range Accuracy Range Accuracy Range	/ / / / / / / / / / / / / / / / / / /	$\pm 1^{\circ}($ 0.01-9.20 A 0.01-4.60 A $\pm (2.0\% \text{ of s})$ 0.01 $\pm (0.19)$ 0.0 $\pm (0.19)$ 1 s 0.1 1 s 0.1 m 0.1 $\pm (0.19)$	(45-65 HZ) 0.01~18.40 A 0.01~9.20 A setting + 2 counts) <1.4 s 0-999.9 s % + 0.05 sec) 0-999.9 s % + 0.05 sec) s-999.9 s n-999.9 min h-999.9 h				
OC Fold Back Resp Ramp-Up Timer (second) Ramp-Down Timer (second) Delay Timer	5V-150 \ 5V-300 \ Accuracy conse Time Accuracy Range Accuracy Range Accuracy		$\pm 1^{\circ}($ 0.01-9.20 A 0.01-4.60 A $\pm (2.0\% \text{ of s})$ 0.0 $\pm (0.19)$ $\pm (0.19)$ 1 (0.19) 1 (0.19) 1 (0.1) 1 (0.1) $\pm (0.1)$ 0.1	(45-65 HZ) 0.01~18.40 A 0.01~9.20 A setting + 2 counts) <1.4 s 0-999.9 s % + 0.05 sec) 0-999.9 s % + 0.05 sec) s-999.9 s -999.9 s -999.9 min h~999.9 h 1% + 0.1 sec)				
OC Fold Back Resp Ramp-Up Timer (second) Ramp-Down Timer (second) Delay Timer Dwell Timer Poly-phase mode	SV-150 V SV-300 V Accuracy conse Time Range Accuracy Range Accuracy Range Accuracy Range Accuracy		$\pm 1^{\circ}($ 0.01-9.20 A 0.01-4.60 A $\pm (2.0\% \text{ of s})$ 0.0 $\pm (0.19)$ $\pm (0.19)$	(45-65 HZ) 0.01-18.40 A 0.01-9.20 A setting + 2 counts) <1.4 s 0-999.9 s % + 0.05 sec) 0-999.9 s % + 0.05 sec) s-999.9 s % + 0.05 sec) s-999.9 s 100				
OC Fold Back Resp Ramp-Up Timer (second) Ramp-Down Timer (second) Delay Timer Dwell Timer	SV-150 V SV-300 V Accuracy conse Time Range Accuracy Range Accuracy Range Accuracy Range Accuracy		$\begin{array}{c c} \pm 1^{\circ}(\\ \hline 0.01-9.20 \text{ A} \\ \hline 0.01-4.60 \text{ A} \\ \pm (2.0\% \text{ of s} \\ \hline 10.00 \text{ c} \\ \pm (2.0\% \text{ of s} \\ \hline 10.00 \text{ c} \\ \pm (0.1\% \text{ c} \\ 0.00 \\ \pm (0.1\% \text{ c} \\ 0.1\% \text{ c} \\ 0.1\% \\ \hline 10.1\% $	(45-65 HZ) 0.01~18.40 A 0.01~9.20 A setting + 2 counts) <1.4 s 0~999.9 s % + 0.05 sec) 0~999.9 s % + 0.05 sec) 5~999.9 s ~999.9 min h~999.9 h % + 0.1 sec) 0 h (0=continuous) 1% + 0.1 sec) 460XAC				
OC Fold Back Resp Ramp-Up Timer (second) Ramp-Down Timer (second) Delay Timer Dwell Timer Poly-phase mode	SV-150 V SV-300 V Accuracy conse Time Range Accuracy Range Accuracy Range Accuracy Range Accuracy		$\begin{array}{c c} \pm 1^{\circ}(\\ \hline 0.01-9.20 \text{ A} \\ \hline 0.01-4.60 \text{ A} \\ \pm (2.0\% \text{ of s} \\ \hline 10.00 \text{ c} \\ \pm (2.0\% \text{ of s} \\ \hline 10.00 \text{ c} \\ \pm (0.1\% \text{ c} \\ 0.00 \\ \pm (0.1\% \text{ c} \\ 0.1\% \text{ c} \\ 0.1\% \\ \hline 10.1\% $	(45-65 HZ) 0.01-18.40 A 0.01-9.20 A setting + 2 counts) <1.4 s 0-999.9 s % + 0.05 sec) 0-999.9 s % + 0.05 sec) s-999.9 s % + 0.05 sec) s-999.9 s 1.4 s				
OC Fold Back Resp Ramp-Up Timer (second) Ramp-Down Timer (second) Delay Timer Delay Timer Dwell Timer Poly-phase mode measurement	SV-150 \ SV-300 \ Accuracy conse Time Range Accuracy Range Accuracy Range Accuracy Range (304W) for	/	$\begin{array}{c c} \pm 1^{\circ}(\\ \hline 0.01-9.20 \text{ A} \\ \hline 0.01-4.60 \text{ A} \\ \pm (2.0\% \text{ of s} \\ \hline \\ $	(45-65 HZ) 0.01-18.40 A 0.01-9.20 A setting + 2 counts) <1.4 s 0-999.9 s % + 0.05 sec) 0-999.9 s % + 0.05 sec) s-999.9 s h-999.9 min h-999.9 h 1% + 0.1 sec) 2 h (0=continuous) % + 0.1 sec) 460XAC 0-1000 Hz 0.1 Hz				
OC Fold Back Resp Ramp-Up Timer (second) Ramp-Down Timer (second) Delay Timer Dwell Timer Poly-phase mode measurement Frequency	SV-150 \ 5V-300 \ Accuracy conse Time Range Accuracy Range Accuracy Range Accuracy (304W) for Range	/ /	$\pm 1^{\circ}($ 0.01-9.20 A 0.01-4.60 A $\pm (2.0\% \text{ of s})$ 0.01-4.60 A $\pm (2.0\% \text{ of s})$ 0.0 $\pm (0.1\%)$ 0.0 $\pm (0.1\%)$ 0.1 1 s 0.1 m 0.1 $\pm (0.1\%)$ 0.0 $\pm (0.1\%)$	(45-65 HZ) 0.01~18.40 A 0.01~9.20 A setting + 2 counts) <1.4 s 0-999.9 s % + 0.05 sec) 0-999.9 s % + 0.05 sec) s-999.9 s n-999.9 min h-999.9 h % + 0.1 sec) Ph (0=continuous) % + 0.1 sec) Ph (0=continuous) % + 0.1 sec) 460XAC 0-1000 Hz 0.1 Hz 00 Hz Accuracy ± 0.2 Hz)				
OC Fold Back Resp Ramp-Up Timer (second) Ramp-Down Timer (second) Delay Timer Dwell Timer Poly-phase mode measurement	SV-150 \ SV-300 \ SV-300 \ Accuracy Range Accuracy Range Accuracy Range Accuracy Range Accuracy (304W) for Accuracy Range Resolution Accuracy Range	/ /	±1°(0.01-9.20 A 0.01-4.60 A ± (2.0% of s 0.0 ± (0.19 0.0 ± (0.19 0.1 1 s 0.1 m 0.1 1 s 0.1 m 0.1 ± (0.1 430XAC 0.0 ± 0.1 Hz (501-100 0.0	(45-65 HZ) 0.01~18.40 A 0.01~9.20 A setting + 2 counts) <1.4 s 0-999.9 s % + 0.05 sec) 0-999.9 s % + 0.05 sec) s-999.9 s h-999.9 h % + 0.1 sec) % + 0.1 sec) % + 0.1 sec) % + 0.1 sec) 1% + 0.1 sec) 460XAC 0.1 Hz 0.1 Hz 10 Hz Accuracy ± 0.2 Hz) 0-420.0 V				
OC Fold Back Resp Ramp-Up Timer (second) Ramp-Down Timer (second) Delay Timer Dwell Timer Poly-phase mode measurement Frequency	SV-150 \ SV-300 \ SV-300 \ Accuracy Range Accuracy Range Accuracy Range Accuracy Range Accuracy Range Accuracy Range Accuracy Range	/ /	±1°(0.01-9.20 A 0.01-4.60 A ± (2.0% of s 0.0 ± (0.19 0.0 ± (0.19 0.1 m 0.1 m 0.1 m 0.1 s-999.9 ± (0.1 430XAC 0.0	(45-65 HZ) 0.01~18.40 A 0.01~9.20 A setting + 2 counts) <1.4 s 0-999.9 s % + 0.05 sec) 0-999.9 s % + 0.05 sec) s-999.9 s n-999.9 min h-999.9 h % + 0.1 sec) Ph (0=continuous) % + 0.1 sec) 2h (0=continuous) % + 0.1 sec) 1% + 0.1 sec) 0.00 Hz 0.01 Hz 0.01 Hz 0.01 - 18.40 A 1.00 Hz 0.01 - 18.40 A 1.00 Hz 0.01 - 18.40 A 1.00 Hz 1.00 Hz 1.				

Poly-phase mode	e (3Ø4W) for p	er phase measurement	430XAC	460XAC					
	Range	L	0.005 A~1.200 A	0.005 A~2.400 A					
		Н	1.00 A~13.00 A	2.00 A~26.00 A					
	Accuracy		± (1% of reading +5 counts) at 40.0-500 Hz	\pm (1% of reading +5 counts) at 40.0-500 Hz					
Current (RMS)		L	± (1% of reading +5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) ≤3.6 A	± (1% of reading +5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) ≤7.2 A					
			± (1% of reading +5 counts) at 40.0-500 Hz	± (1% of reading +5 counts) at 40.0-500 Hz					
		Н	± (1% of reading +5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) ≤27.6 A	± (1% of reading +5 counts) at 501-1000 Hz, CF < 1.5 and Current (peak) ≤55.2 A					
	Range		0.0 A~38.0 A	0.0 A~76.0 A					
			± (1% of reading + 5 counts) at 40.0-70.0 Hz						
Current (peak)	Accuracy		± (1.5% of reading + 10 counts	\pm (1.5% of reading + 10 counts) at 70.1 - 500 Hz					
			± (1.5% of reading + 10 counts) at 50	1 - 1000 Hz and CF <1.5					
	Range	L	0.0 W~120.0 W	0.0 W~240.0 W					
	5	Н	100 W~1300 W	200 W~2600 W					
	Accuracy		± (2% of reading +15 counts) at 40.						
Power		L	\pm (2% of reading +30 counts) at 501 \pm (2% of reading +30 counts) at 501						
			± (2% of reading +5 counts) at 40.0						
		Н	± (2% of reading +15 counts) at 501						
Power Factor	Range		0 - 1.000						
	Accuracy		W / VA, Calculated and displayed to	three significant digits					
Power Apparent	Range	L	0.0 VA~120.0 VA	0.0 VA~240.0 VA					
VA)	Kange	н	0.0 VA~120.0 VA						
	Accuracy	П	100 VA~1300 VA V×A, Calculated v	200 VA~2600 VA					
Power	Accuracy								
Power Reactive (Q)	Range	L	0.0 VAR ~ ± 120.0 VAR	0.0 VAR ~ ± 240.0 VAR					
	A	Н	0 VAR ~ ± 1300 VAR	0 VAR ~ ± 2600 VAR					
	Accuracy		√(VA)2 - (W)2, Calculat	ea value					
Crest Factor	Range	0 - 10.00 Ap / A, Calculated and displayed to two significant digits							
	Accuracy								
Poly-phase mode		measurement	430XAC	460XAC					
Frequency	Range		0.0-1000.0 Hz						
	Accuracy		± 0.1 Hz (501-1000 Hz Accu	racy ±0.2 Hz)					
Voltage	Range		0.0-727.5 V						
	Calculated F		(A+B+C)/√3, Calculated and displayed	0 0					
Current (RMS)	Range	L	0.005A~1.200A	0.005A~2.400A					
	Range								
		н	1.00A~13.00A	2.00A~26.00A					
	Calculated	H		2.00A~26.00A					
	Calculated Formula		$\frac{\sum VA}{\sum V} / \sqrt{3}$	2.00A~26.00A					
Power		L		0.0W~720.0W					
Power	Formula	L	$\frac{\sum VA}{\sum V} / \sqrt{3}$						
² ower	Formula	L H L	$\frac{\sum VA}{\sum V} / \sqrt{3}$ 0.0W~360.0W 300W~3900W	0.0W~720.0W 600W~7800W					
Power	Formula Range	L H L H	$\frac{\sum VA}{\sum V} / \sqrt{3}$ 0.0W~360.0W	0.0W~720.0W 600W~7800W					
	Formula Range	L H L H L	$\frac{\sum VA}{\sum V} / \sqrt{3}$ 0.0W~360.0W 300W~3900W	0.0W~720.0W 600W~7800W					
	Formula Range Accuracy	L H L H L	$\frac{\sum VA}{\sum V} / \sqrt{3}$ 0.0W~360.0W 300W~3900W $\frac{\sum P}{\sum V}$ A Power + B Power + C Power,	0.0W~720.0W 600W~7800W					
	Formula Range Accuracy Range	L H L H L	$\frac{\sum VA}{\sum V} / \sqrt{3}$ 0.0W~360.0W 300W~3900W $\frac{\sum^{P}}{\sum^{VA}} \qquad \text{A Power + B Power + C Power,}$ 0 - 1.000	0.0W~720.0W 600W~7800W Calculated value					
Power Factor	Formula Range Accuracy Range Resolution	L H L H L	$\frac{\sum VA}{\sum V} / \sqrt{3}$ 0.0W~360.0W 300W~3900W $\frac{\sum^{P}}{\sum^{VA}} \qquad \text{A Power + B Power + C Power,}$ 0 - 1.000 0.001	0.0W~720.0W 600W~7800W Calculated value					
Power Factor	Formula Range Accuracy Range Resolution Accuracy	L H L H L H	$\frac{\sum VA}{\sum V} / \sqrt{3}$ 0.0W~360.0W 300W~3900W $\frac{\sum P}{\sum V}$ A Power + B Power + C Power, 0 - 1.000 0.001 Calculated and displayed to the comparison of the c	0.0W~720.0W 600W~7800W Calculated value .hree significant digits					
Power Factor	Formula Range Accuracy Range Resolution Accuracy Range	L H L H H	$\frac{\sum VA}{\sum V} / \sqrt{3}$ 0.0W~360.0W 300W~3900W $\frac{\sum P}{\sum VA} \qquad \text{A Power + B Power + C Power,}$ 0 - 1.000 0.001 Calculated and displayed to 1 0.0VA~360.0VA 300VA~3900VA	0.0W~720.0W 600W~7800W Calculated value three significant digits 0.0VA~720.0VA					
Power Factor	Formula Range Accuracy Range Resolution Accuracy	L H L H L H L H	$\frac{\sum VA}{\sum V} / \sqrt{3}$ 0.0W~360.0W 300W~3900W $\frac{\sum^{P}}{\sum^{VA}} \qquad \text{A Power + B Power + C Power,}$ 0 - 1.000 0.001 Calculated and displayed to t 0.0VA~360.0VA	0.0W~720.0W 600W~7800W Calculated value three significant digits 0.0VA~720.0VA					
Power Factor Power Apparent (VA)	Formula Range Accuracy Range Resolution Accuracy Range Calculated Formula	L H L H L H H L H	$\frac{\sum VA}{\sum V} / \sqrt{3}$ $0.0W - 360.0W$ $300W - 3900W$ $\frac{\sum^{P}}{\sum^{VA}} \qquad \text{A Power + B Power + C Power,}$ $0 - 1.000$ 0.001 $Calculated and displayed to to 0.0VA - 360.0VA$ $300VA - 360.0VA$ $\sqrt{(\sum^{W})^{2} + (\sum^{Q})^{2}}$	0.0W~720.0W 600W~7800W Calculated value three significant digits 0.0VA~720.0VA 600VA~7800VA					
Power Factor Power Apparent (VA) Power	Formula Range Accuracy Range Resolution Accuracy Range Calculated	L H L H L L H L L H L	$\frac{\sum VA}{\sum V} / \sqrt{3}$ 0.0W-360.0W 300W-3900W $\frac{\sum^{P}}{\sum^{VA}} \qquad \text{A Power + B Power + C Power,}$ 0 - 1.000 0.001 Calculated and displayed to t 0.0VA~360.0VA 300VA~3900VA $\sqrt{(\sum^{W})^{2} + (\sum^{Q})^{2}}$ 0.0VAR-360.0VAR	0.0W~720.0W 600W~7800W Calculated value three significant digits 0.0VA~720.0VA 600VA~7800VA 0.0VAR~720.0VAR					
Power Factor Power Apparent (VA) Power	Formula Range Accuracy Range Resolution Accuracy Range Calculated Formula Range	L H L H L H L H L H L H	$\frac{\sum VA}{\sum V} / \sqrt{3}$ $0.0W - 360.0W$ $300W - 3900W$ $\frac{\sum^{P}}{\sum^{VA}} \qquad \text{A Power + B Power + C Power,}$ $0 - 1.000$ 0.001 $Calculated and displayed to to 0.0VA - 360.0VA$ $300VA - 360.0VA$ $\sqrt{(\sum^{W})^{2} + (\sum^{Q})^{2}}$	0.0W~720.0W 600W~7800W Calculated value three significant digits 0.0VA~720.0VA 600VA~7800VA					
Power Factor Power Apparent (VA) Power	Formula Range Accuracy Range Resolution Accuracy Range Calculated Formula	L H L H L H L H L H L H L H	$\frac{\sum VA}{\sum V} / \sqrt{3}$ 0.0W-360.0W 300W-3900W $\frac{\sum^{P}}{\sum^{VA}} \qquad \text{A Power + B Power + C Power,}$ 0 - 1.000 0.001 Calculated and displayed to t 0.0VA~360.0VA 300VA~3900VA $\sqrt{(\sum^{W})^{2} + (\sum^{Q})^{2}}$ 0.0VAR-360.0VAR	0.0W~720.0W 600W~7800W Calculated value three significant digits 0.0VA~720.0VA 600VA~7800VA 0.0VAR~720.0VAR 600VAR~7800VAR					
Power Factor Power Apparent (VA) Power Reactive (Q)	Formula Range Accuracy Range Resolution Accuracy Range Calculated Formula Range Accuracy	L H L H L L H L L H L H L H	$\frac{\sum VA}{\sum V} / \sqrt{3}$ 0.0W-360.0W 300W-3900W $\frac{\sum P}{\sum VA}$ A Power + B Power + C Power, 0 - 1.000 0.001 Calculated and displayed to t 0.0VA~360.0VA 300VA~3900VA $\sqrt{(\sum W)^2 + (\sum Q)^2}$ 0.0VAR-360.0VAR 300VAR-3900VAR A VAR + B VAR + C VAR, Calculated and a comparison of the text of the text of the text of the text of tex of text of text of text of text of tex of tex of te	0.0W~720.0W 600W~7800W Calculated value three significant digits 0.0VA~720.0VA 600VA~7800VA 0.0VAR~720.0VAR 600VAR~7800VAR lculated value					
Power Factor Power Apparent (VA) Power Reactive (Q) Single-phase mo	Formula Range Accuracy Range Resolution Accuracy Range Calculated Formula Range Accuracy	L H L H L L H L L H L H L H	$\frac{\sum VA}{\sum V} / \sqrt{3}$ 0.0W~360.0W 300W~3900W $\frac{\sum P}{\sum VA} \text{A Power + B Power + C Power,}$ 0 - 1.000 0.01 Calculated and displayed to 1 0.0VA~360.0VA 300VA~3900VA $\sqrt{(\Sigma^W)^2 + (\Sigma^Q)^2}$ 0.0VAR~360.0VAR 300VAR~3900VAR A VAR + B VAR + C VAR, Calculated A VAR + B VAR + C VAR,	0.0W-720.0W 600W-7800W Calculated value chree significant digits 0.0VA-720.0VA 600VA-7800VA 600VAR-7800VA 600VAR-7800VAR 600VAR-7800VAR 600VAR-7800VAR					
Power Factor Power Apparent (VA) Power Reactive (Q) Single-phase mo	Formula Range Accuracy Range Resolution Accuracy Range Calculated Formula Range Accuracy de (102W) Se Range	L H L H L L H L L H L H L H	$\frac{\sum VA}{\sum V} / \sqrt{3}$ 0.0W-360.0W 300W-3900W $\frac{\sum P}{\sum VA}$ A Power + B Power + C Power, 0 - 1.000 0.001 Calculated and displayed to 1 0.0VA~360.0VA 300VA~3900VA $\sqrt{(\Sigma^W)^2 + (\Sigma^Q)^2}$ 0.0VAR-360.0VAR 300VAR-3900VAR A VAR + B VAR + C VAR, Calculated A VAR + C VAR, Calculated A VAR + B VAR + C VAR, Calculated A	0.0W-720.0W 600W-7800W Calculated value chree significant digits 0.0VA-720.0VA 600VA-7800VA 600VAR-7800VA 600VAR-7800VAR 600VAR-7800VAR 600VAR-7800VAR					
Power Power Factor Power Apparent (VA) Power Reactive (Q) Single-phase mo Voltage	Formula Range Accuracy Range Resolution Accuracy Range Calculated Formula Range Accuracy de (102W) Se Range Range Range	L H L H L L H L L H L H L H	$\frac{\sum VA}{\sum V} / \sqrt{3}$ 0.0W-360.0W 300W-3900W $\frac{\sum P}{\sum VA}$ A Power + B Power + C Power, 0 - 1.000 0.001 Calculated and displayed to t 0.0VA-360.0VA 300VA-3900VA $\sqrt{(\sum W)^2 + (\sum Q)^2}$ 0.0VAR-360.0VAR 300VAR-3900VAR A VAR + B VAR + C VAR, Ca 430XAC 5.0~300 VAC, 150/300 V 0.1 V	0.0W-720.0W 600W-7800W Calculated value chree significant digits 0.0VA~720.0VA 600VA~7800VA 600VA~7800VA convAr-7800VAR lculated value 460XAC Auto Range					
'ower Factor 'ower Apparent (VA) 'ower leactive (Q) ingle-phase mo	Formula Range Accuracy Range Resolution Accuracy Range Calculated Formula Range Accuracy de (102W) Se Range	L H L H L L H L L H L H L H	$\frac{\sum VA}{\sum V} / \sqrt{3}$ 0.0W-360.0W 300W-3900W $\frac{\sum P}{\sum VA}$ A Power + B Power + C Power, 0 - 1.000 0.001 Calculated and displayed to 1 0.0VA~360.0VA 300VA~3900VA $\sqrt{(\Sigma^W)^2 + (\Sigma^Q)^2}$ 0.0VAR-360.0VAR 300VAR-3900VAR A VAR + B VAR + C VAR, Calculated A VAR + C VAR, Calculated A VAR + B VAR + C VAR, Calculated A	0.0W~720.0W 600W~7800W Calculated value chree significant digits 0.0VA~720.0VA 600VA~7800VA 600VA~7800VA covVAR~7800VAR lculated value 460XAC Auto Range					

Frequency	Range Resolution		40~1000 Hz Full Range	Adjust				
	Develoption		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 settin	g				
Starting & Ending	Range		0~359°					
Phase Angle	Resolution		1°					
	Accuracy		± 1°(45~65 HZ)					
	5V~150V		0.01~27.60 A	0.01~55.20 A				
Current Hi Limit	5V~300V		0.01~13.80 A	0.01~27.60 A				
Current in Linnt								
	Accuracy		± (2.0% of setting + 2	counts)				
OC Fold Back Resp			< 1.4 s					
Single-phase mo	ode (102vv)	measurement	430XAC	460XAC				
Frequency	Range		0.0~1000 Hz					
	Accuracy		± 0.1 Hz (501~1000 Hz Accur	racy ±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				
current (peak)								
	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 t	three significant digits				
Power Apparent	Range		0 VA~3900 VA	0 VA~7800 VA				
	Accuracy		V×A, Calculated va	lue				
Power	Range		0 VAR~3900 VAR	0 VAR~7800 VAR				
Reactive (Q)	Accuracy		√(VA)₂ - (W)₂, Calculate					
Crest Factor	Range		0 - 10.00					
Clestiactor			0 - 10.00 Ap / A, Calculated and displayed to two significant digits					
	Accuracy		Ap / A, Calculated and displayed to	two significant digits				
Poly-phase mod setting	le (1Ø3W) fo		430XAC	460XAC				
Voltage	Range		5.0~300 VAC (phase), 10.0~600 VAC (line	e), 150/300 V Auto Range				
	Accuracy		± (0.2% of setting + 3	counts)				
Frequency	Range		40~1000 Hz Full Range	Adjust				
	Accuracy		± 0.03% of settin	g				
Starting & Ending	Range		0~359°					
Phase Angle	Accuracy		± 1°(45~65 HZ)					
	-							
	5V~150V		0.01~9.20 A	0.01~18.40 A				
Current RI Limit	5V~300V		0.01~4.60 A	0.01~9.20 A				
	Accuracy		± (2.0% of setting + 2	counts)				
OC Fold Back Resp	oonse Time		<1.4 s					
Poly-phase mod ment	le (1Ø3W) fo		430XAC	460XAC				
Frequer	Range		0.0-1000 Hz					
Frequency	Accuracy		± 0.1 Hz (501-1000 Hz Accur	racy ±0.2 Hz)				
	Range		0.0-420.0 V					
Voltage	Accuracy		± (0.2% of reading + 3	counts)				
		L	0.005 A~1.200 A	0.005 A~2.400 A				
	Range	н	1.00 A~13.00 A	2.00 A~26.00 A				
		П						
Current (RMS)	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 l ± (1% of reading +5 counts) at 501-1000 l CF <1.5 and Current (peak) ≤7.2 A				
	Accuracy							

Poly-phase moo phase measure			430XAC	460XAC		
	Range		0.0 A~38.0 A	0.0 A~76.0 A		
Current (peak)	Accuracy		± (1.5% of reading +	5 counts) at 40.0-70.0 Hz 10 counts) at 70.1-500 Hz ints) at 501-1000 Hz and CF <1.5		
	Panga	L	0.0 W~120.0 W	0.0 W~240.0 W		
	Range	Н	100 W~1300 W	200 W~2600 W		
Power	Accuracy	L		nts) at 40.0-500 Hz and PF ≥0.2 nts) at 501-1000 Hz and PF ≥0.5		
	Accuracy	Н		ts) at 40.0-500 Hz and PF ≥0.2 ts) at 501-1000 Hz and PF ≥0.5		
Power Factor	Range		0 -	- 1.000		
1 Ower 1 actor	Accuracy		W / VA, Calculated and disp	olayed to three significant digits		
		L	0.0 VA~120.0 VA	0.0 VA~240.0 VA		
Power Apparent (VA)	Range	Н	100 VA~1300 VA	200 VA~2600 VA		
Apparent (VA)	Accuracy		VxA, Cal	culated value		
		L	0.0 VAR~120.0 VAR	0.0 VAR~240.0 VAR		
Power	Range	Н	0 VAR~1300 VAR	0 VAR~2600 VAR		
Reactive (Q)				Calculated value		
Croct Factor	Accuracy					
Crest Factor	Range			-10.00		
	Accuracy		Ap / A, Calculated and dis	played to two significant digits		
Poly-phase mod measurement	de (1Ø3W) f	or L1-L2	430XAC	460XAC		
Frequency	Range		0.0-1	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, Calculate	d and displayed to one significant digits		
Current (RMS)	Range	L	0.005A~1.200A	0.005A~2.400A		
current (RWD)	Range	н	1.00A~13.00A	2.00~26.00A		
	Calculated Formula	H	$\frac{\Sigma^{VA}}{\Sigma^{V}}$			
Power	Range	L	0.0W~240.0W	0.0W~480.0W		
		н	200W~2600W	400W~5200W		
	Accuracy	L	L1 Power + L2 Po	wer, Calculated value		
Power Factor	Range		0	- 1.000		
Towerractor	Calculated F					
				ted and displayed to three significant digits		
Power Apparent (VA)	Range	L	0.0W~240.0VA	0.0W~480.0VA		
		Н	200W~2600VA	± 400W~5200VA		
	Calculated Formula	L	$\sqrt{(\sum^W)^2 + (\sum^Q)^2}$	Calculated value		
		Н				
Power Reactive (Q)	Range	L	0.0VAR ~ ± 240.0VAR	0.0VAR ~ ± 480.0VAR		
		Н	± 200VAR ~ ± 2600VAR	± 400VAR ~ ± 5200VAR		
	Calculated Formula	H	L1 VAR + L2 VA	R, Calculated value		
DC OUTPUT						
Max. Power			3000 W	6000 W		
Max. Current	0-21	0 V	14.4 A	28.8 A		
and our out offe	0-42		7.2 A	14.4 A		
Disals 151 1		0 V				
Ripple and Noise (RIVIS)		-	210 V <700 mV		
				20 V <1100 mV		
Ripple and Noise (<4	.0 Vр-р		
DC SETTINGS	5					
Voltage	Range		5-210 V / 5	420 V Selectable		
	Accuracy		± (0.2% of se	etting + 3 counts)		
	5 V-210 V		14.40 A	0.10 - 28.80 A		
Current Hi Limit	5 V-420 V		7.20 A	0.10 - 14.40 A		
	Accuracy			etting + 2 counts)		
OC Fold Back Res	-					
CC FOID BACK KES	Jonse Time			<1.4 s		

DC MEASUR	EMENT	430XAC	460XAC				
Voltage	Range	0.0	-420.0 V				
	Accuracy	± (0.2% of se	etting + 5 counts)				
Current	Range	0.05 A~19.50 A	0.05 A~39.00 A				
	Accuracy	± (1% of rea	ading +5 counts)				
Power	Range	0 W~3900 W	0 W~7800 W				
	Accuracy	± (2% of rea	± (2% of reading +5 counts)				
PROTECTION							
Software OCP		Over Current 110% of	full rated current >1 second				
Output Short S	hut Down Speed	<1	second				
Software OPP		When over Power 105 ~ 1	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		When output frequency < 100F	łz, maximum voltage deviation + 5V				
	L		Hz, maximum voltage deviation + 15V				
			Hz, maximum voltage deviation + 20V				
	н		z, maximum voltage deviation + 10V Hz, maximum voltage deviation + 30V				
	11		Hz, maximum voltage deviation + 30V				
Software LVP			ximum voltage deviation -5V > 0.5 second				
	L		aximum voltage deviation -15V > 0.5 second				
		When output frequency 501-1000Hz, maximum voltage deviation -20V > 0.5 second					
		When output frequency < 100Hz, maximum voltage deviation $-10V > 0.5$ second					
	н		ximum voltage deviation -30V > 0.5 second				
			aximum voltage deviation -40V > 0.5 second				
	t Protection (RCP)	Ον	er 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°					
			.9 mS Resolution 1.1 mS				
			-9999, 0-Constant				
Operation Key	Feature		ric key, Rotary Knob				
Remote Input S	ignal	Test, Reset, Interlock, Reca	Il program memory 1 through 7				
Remote Output		Pass, Fail ,	Test-in Process				
Key Lock	0		sword Driven				
Memory			, 9 steps/memory				
Ext Trigger			pgram mode, Output Signal 5 V, BNC type				
Alarm Volume S	Settina		test volume, 9 is loudest volume.				
Graphic Display			graphic LCD/Contrast 9 Levels 1-9				
PFC			7 at Full load				
Efficiency			at Full load)				
Auto Loop cycl	e		ous, OFF, 2~9999				
Over Current F			e it will fold back output voltage to keep constant output current is Response time <1400ms				
Safety Agency			E Listed				
Dimensions (W	x H x D)		0.5 x 500 mm				
			5.77 x 19.69 in				
Net Weight		105.8 lbs (48 kg)	125.6 lbs (57 kg)				
Operation Envi	ronment		20-80% RH				
operation LIM	onnent	0-40 /	20-0070 KH				

Specifications subject to change



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