# **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

#### **EEC Benefits**



#### **Standard**





USB

RS-232

### **Options**





GPIB (OPT)





			400XAC Series		
MC	DDEL		430XAC	460XAC	
			INPUT		
Phase			10 or 30	1Ø or 3Ø	
Tilase			1Ø : 200~240 VAC ± 10%	1Ø : 200~240 VAC ± 10%	
Voltage			3Ø3W : 200-240 VAC ± 10% 3Ø4W : 346-416 VAC ± 10%	3Ø3W : 200~240 VAC ± 10% 3Ø4W : 346~416 VAC ± 10%	
Frequency			47 - 6	3 Hz	
			AC OUTPUT		
	1Ø2W		3000 VA	6000 VA	
	1Ø3W		Total 2000 VA (1000 VA per phase)	Total 4000 VA (2000 VA per phase)	
Power Rating	3Ø4W		Total 3000 VA (1000 VA per phase)	Total 6000 VA (2000 VA per phase)	
	DC		3000 VA	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 - 150 V			
(реак)			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	
-1		5 - 300 V	18.4 A for per phase	36.8 A for per phase	
Phase			1Ø2W, 1Ø3W, 3Ø4V		
THD (Total Harmonic Distortion	on)		<0.5% (Resistive Load) at 40.0~70.0 Hz an at Low Range or the 160~ <1% (Resistive Load) at 70.1~1000 Hz and output voltage within th	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	
		P	oly-phase Mode (3Ø4W) for Per Phase Output Set	ting	
	Range		5.0~300 VAC (phase), 8.6~520 VAC (line), 150/300 V Auto Range		
Voltage	Accuracy		± (0.2% of setting + 3 counts)		
	Range		40~1000 Hz Full Range Adjust		
Frequency			± 0.03% of setting		
C 0. F. l.	Accuracy		0~359°		
Starting & Ending Phase Angle	Range				
	Accuracy		,	±1°(45~65 HZ)	
	5V~150 V		0.01~9.20 A	0.01~18.40 A	
Current Hi Limit	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.		
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 Measurem	ent	
Frequency	Range		0.0-10		
)	Resolution		0.0-1000 Hz		
	Accuracy				
Voltage			± 0.1 Hz (501-1000 Hz Accuracy ± 0.2 Hz)		
voitage	Range		0.0-420.0 V		
	Resolution		0.1 V		
	Accuracy		± (0.2% of reading + 3 counts)		

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## Specifications – 400XAC

1410	DDEL	D. Lt-	430XAC	460XAC	
		Poly-pha	se Mode (3Ø4W) for Per Phase Measurement (Cor	ntinued)	
	Banga	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	
Current (RMS)			± (1% of reading +5 counts) at 40.0-500 Hz	$\pm$ (1% of reading +5 counts) at 40.0-500 Hz	
		L	± (1% of reading +5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) ≤3.6 A	$\pm$ (1% of reading +5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) $\leq$ 7.2 A	
	Accuracy		± (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	$\pm$ (1% of reading +5 counts) at 501-1000 Hz, CF < 1.5 and Current (peak) $\leq$ 55.2 A	
	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		
Current (peak)			± (1.5% of reading + 10 counts) at 70.1 - 500 Hz		
			± (1.5% of reading + 10 counts) a	t 501 - 1000 Hz and CF <1.5	
		L	0.0 W~120.0 W	0.0 W~240.0 W	
	Range	Н	100 W~1300 W	200 W~2600 W	
			± (2% of reading +15 counts) at	40.0-500 Hz and PF ≥0.2	
Power		L	± (2% of reading +30 counts) at		
	Accuracy		± (2% of reading +5 counts) at		
		Н	± (2% of reading +15 counts) at		
	Range		0 - 1.00		
Power Factor			W / VA, Calculated and displaye		
	Accuracy	,	0.0 VA~120.0 VA	0.0 VA~240.0 VA	
Power Appearat (VA)	Range	L			
Power Apparent (VA)		Н	100 VA~1300 VA	200 VA~2600 VA	
	Accuracy		V×A, Calculat		
Power	Range	L	0.0 VAR ~ 120.0 VAR	0.0 VAR ~ 240.0 VAR	
Reactive (Q)		Н	0 VAR ~ 1300 VAR	0 VAR ~ 2600 VAR	
	Accuracy		√ (VA)² - (W)², Calculated value		
Crest Factor	Range		0 - 10.0	0	
orest ractor	Accuracy		Ap / A, Calculated and displayed to two significant digits		
			Poly-phase Mode (3Ø4W) for ∑ Measurement		
	Range	ge 0.0-1000.0 Hz			
Frequency	Accuracy		± 0.1 Hz (501-1000 Hz Accuracy ±0.2 Hz)		
	Range		0.0-727.5 V		
/oltage	Calculated Formula		(A+B+C)/ $\sqrt{3}$ , Calculated and displayed to one significant digits		
		L	0.005A~1.200A	0.005A~2.400A	
	Range	Н	1.00A~13.00A	2.00A~26.00A	
Current (RMS)	Calculated Formula	L			
			$\frac{\sum VA}{\sum V}$	<del>[3]</del>	
		H			
	Range	L	0.0W~360.0W	0.0W~720.0W	
Power		Н	300W~3900W	600W~7800W	
	Accuracy	L	A Power + B Power + C Po	wer, Calculated value	
	, , , , ,	Н	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2		
	Range		0 - 1.000		
Power Factor	Resolution		0.001		
	Accuracy		$\frac{\Sigma^P}{}$ Calculated and displayed	to three significant digits	
	, teedidey		$\sum_{i} VA$		
	Range	L	0.0VA~360.0VA	0.0VA~720.0VA	
Power	go	Н	300VA~3900VA	600VA~7800VA	
Apparent (VA)	Calculated	L	$\int_{C} W_{12}$	(\sum_{0})2	
	Formula	Н	$\sqrt{(\sum^W)^2}$ +	(Z*)T	
	Range	L	0.0VAR~360.0VAR	0.0VAR~720.0VAR	
		Н	300VAR~3900VAR	600VAR~7800VAR	
2		L			
		L	A VAR + B VAR + C VAR	, Calculated value	
Power Reactive (Q)	Accuracy	Н			
	Accuracy	Н	Single-phase Mode (1Ø2W) Setting		
	Accuracy	Н	Single-phase Mode (1Ø2W) Setting 5.0~300 VAC, 150/30	0 V Auto Range	
Reactive (Q)	-	Н		0 V Auto Range	

MODEL
Frequency         Range         40 - 1000 Hz Full Range Adjust           Resolution         0.1 Hz at 40.0 - 99.9 Hz, 1 Hz at 100 - 1000 Hz           Starting & Ending Phase Angle         Range         0.359°             Resolution         1°         Course           Accuracy         0.01 - 27.60 A         0.01 - 52.00 A           Current Hil Limit         5V - 300V         0.01 - 27.60 A         0.01 - 27.60 A           Current Fil Limit         5V - 300V         0.01 - 13.80 A         0.01 - 27.60 A           Single-phase Mode (192W) Measurement           Frequency         Range         0.0 - 1000 Hz           Accuracy         ± 0.1 Hz (501 - 1000 Hz Accuracy ± 0.2 Hz)           Accuracy         ± 0.1 Hz (501 - 1000 Hz Accuracy ± 0.2 Hz)           Accuracy         ± 0.0 S A - 30.0 A         0.0 S A - 78.00           Accuracy         ± (1% of reading + 5 counts) at 501 - 1000 Hz Accuracy ± (1% of reading + 5 counts) at 501 - 1000 Hz Accuracy ± (1% of reading + 5 counts) at 501 - 1000 Hz Accuracy ± (1% of reading + 5 counts) at 501 - 1000 Hz Accuracy ± (1% of reading + 5 counts) at 501 - 1000 Hz Accuracy ± (1% of reading + 5 counts) at 501 - 1000 Hz Accuracy ± (1% of reading + 5 counts) at 501 - 1000 Hz Accuracy ± (1% of reading + 5 counts) at 501 - 1000 Hz Accuracy ± (1% of reading + 5 counts) at 501 - 1000 Hz Accuracy ± (1% of reading + 5 counts) at 501 - 1000 Hz Accuracy ± (1% of reading + 5 counts) at 501 - 1000 Hz Accuracy ± (1% of reading + 5 co
Resolution
Starting & Ending Phase Angle   Range   0-359°
Range
Resolution   1°
Accuracy
SV-150V   0.01-27.60 A   0.01-57.20 A
SV-300V
Accuracy
Single-phase Mode (1002W) Measurement
Single-phase Mode (1Ø2W) Measurement
Range
Range
Accuracy
Range
Accuracy
Range
Accuracy
# (1% of reading +5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) ≤82.8 A CF <1.5 and Current (peak) ≤165.6 A  ## (1% of reading +5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) ≤165.6 A  ## (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 70.1-500 Hz ## (1.5% of reading +10 counts) at 501-1000 Hz and CF <1.5  ## (1% of reading +5 counts) at 70.1-500 Hz ## (1.5% of reading +10 counts) at 70.1-500 Hz ## (2% of reading +5 counts) at 40.0-700 Hz and PF ≥0.2 ## (2% of reading +5 counts) at 40.0-500 Hz and PF ≥0.2 ## (2% of reading +5 counts) at 501-1000 Hz and PF ≥0.5  ## (2% of reading +5 counts) at 501-1000 Hz and PF ≥0.5  ## (2% of reading +10 counts) at 501-1000 Hz and PF ≥0.5  ## (2% of reading +10 counts) at 501-1000 Hz and PF ≥0.5  ## (2% of reading +10 counts) at 501-1000 Hz and PF ≥0.5  ## (2% of reading +10 counts) at 501-1000 Hz and PF ≥0.5  ## (2% of reading +10 counts) at 501-1000 Hz and PF ≥0.5  ## (2% of reading +10 counts) at 501-1000 Hz and PF ≥0.5  ## (2% of reading +10 counts) at 70.1-500 Hz and PF ≥0.2 ## (2% of reading +10 counts) at 70.1-500 Hz and PF ≥0.2 ## (2% of reading +10 counts) at 70.1-500 Hz and PF ≥0.2 ## (2% of reading +10 counts) at 70.1-500 Hz and PF ≥0.5  ## (2% of reading +10 counts) at 70.1-500 Hz and PF ≥0.2 ## (2% of reading +10 counts) at 70.1-500 Hz and PF ≥0.2 ## (2% of reading +10 counts) at 70.1-500 Hz and PF ≥0.2 ## (2% of reading +10 counts) at 70.1-500 Hz and PF ≥0.2 ## (2% of reading +10 counts) at 70.1-500 Hz and PF ≥0.2 ## (2% of reading +10 counts) at 70.1-500 Hz and PF ≥0.2 ## (2% of reading +10 counts) at 70.1-500 Hz and PF ≥0.2 ## (2% of reading +10 counts) at 70.1-500 Hz and PF ≥0.2 ## (2% of reading +10 counts) at 70.1-500 Hz and PF ≥0.2 ## (2% of reading +10 counts) at 70.1-500 Hz and PF ≥0.2 ## (2% of reading +10 counts) at 70.1-500 Hz and PF ≥0.2 ## (2% of reading +10 counts) at 70.1-500 Hz and PF ≥0.2 ## (2% of reading +10 counts) at 70.1-500 Hz and PF ≥0.2 ## (2% of rea
CF < 1.5 and Current (peak) ≤ 82.8 A   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 501~1000 Hz and CF<1.5
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  **Ower Angular Accuracy  **Range **O W~3900 W**  **Accuracy **E (2% of reading + 5 counts) at 40.0~500 Hz and PF ≥ 0.2 # (2% of reading + 5 counts) at 501~1000 Hz and PF ≥ 0.5  **Power Factor Accuracy **O VA, Calculated and displayed to three significant digits  **Power Apparent Accuracy **O VA~3900 VA**  **Power Apparent Accuracy **O VA~3900
# (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  # (2% of reading + 5 counts) at 40.0~500 Hz and PF ≥ 0.2 # (2% of reading + 5 counts) at 40.0~500 Hz and PF ≥ 0.2 # (2% of reading + 5 counts) at 501~1000 Hz and PF ≥ 0.5  # (2% of reading + 5 counts) at 501~1000 Hz and PF ≥ 0.5  # (2% of reading + 5 counts) at 501~1000 Hz and PF ≥ 0.5  # (2% of reading + 5 counts) at 501~1000 Hz and PF ≥ 0.5  # (2% of reading + 5 counts) at 501~1000 Hz and PF ≥ 0.5  # (2% of reading + 5 counts) at 40.0~500 Hz and PF ≥ 0.2 # (2% of reading + 5 counts) at 40.0~500 Hz and PF ≥ 0.2 # (2% of reading + 5 counts) at 40.0~500 Hz and PF ≥ 0.2 # (2% of reading + 5 counts) at 40.0~500 Hz and PF ≥ 0.2 # (2% of reading + 10 counts) at 40.0~500 Hz and PF ≥ 0.2 # (2% of reading + 10 counts) at 40.0~500 Hz and PF ≥ 0.2 # (2% of reading + 10 counts) at 40.0~500 Hz and PF ≥ 0.2 # (2% of reading + 10 counts) at 501~1000 Hz and PF ≥ 0.2 # (2% of reading + 10 counts) at 40.0~500 Hz and PF ≥ 0.2 # (2% of reading + 10 counts) at 40.0~500 Hz and PF ≥ 0.2 # (2% of reading + 10 counts) at 40.0~500 Hz and PF ≥ 0.2 # (2% of reading + 10 counts) at 40.0~500 Hz and PF ≥ 0.2 # (2% of reading + 10 counts) at 40.0~500 Hz and PF ≥ 0.2 # (2% of reading + 10 counts) at 40.0~500 Hz and PF ≥ 0.2 # (2% of reading + 10 counts) at 40.0~500 Hz and PF ≥ 0.2 # (2% of reading + 10 counts) at 40.0~500 Hz and PF ≥ 0.2 # (2% of reading + 10 counts) at 40.0~500 Hz and PF ≥ 0.2 # (2% of reading + 10 counts) at 40.0~500 Hz and PF ≥ 0.2 # (2% of reading + 10 counts) at 40.0~500 Hz and PF ≥ 0.2 # (2% of reading + 10 counts) at 40.0~500 Hz and PF ≥ 0.2 # (2% of reading + 10 counts) at 40.0~500 Hz and PF ≥ 0.2 # (2% of reading + 10 counts) at 40.0~500 Hz and PF ≥ 0.2 # (2% of reading + 10 counts) at 40.0~500 Hz and PF ≥ 0.5 # (2% of reading + 10 counts) at 40.0~500 Hz and PF ≥ 0.5 # (2% of reading + 10 counts) at 40.0~500 Hz and PF ≥ 0.5 # (2% of reading + 10 counts) at 40.0~500 Hz and PF ≥ 0.5 # (2% of reading + 10 counts) a
### #################################
Accuracy  \$\frac{\pmu}{2} \frac{\pmu}{2} \pm
# £ (2% of reading +15 counts) at 501~1000 Hz and PF ≥0.5  ## Power Factor    Range
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           Reactive (Q)         Accuracy         \((VA)^2 - (W)^2\), Calculated value           Crest Factor         Range         0 - 10.00
Accuracy
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         √(VA)² - (W)², Calculated value           Crest Factor         Range         0 - 10.00
Accuracy         V×A, Calculated value           Power Reactive (Q)         Range         0 VAR~3900 VAR         0 VAR~7800 VAR           Accuracy         √(VA)² - (W)², Calculated value           Crest Factor         Range         0 - 10.00
Power Reactive (Q)         Range         0 VAR~3900 VAR         0 VAR~7800 VAR           Accuracy         \(\sqrt{VA})^2 - \sqrt{W}\)2, Calculated value           Crest Factor         Range         0 - 10.00
Reactive (Q)         Accuracy         √(VA)² - (W)², Calculated value           Crest Factor         Range         0 - 10.00
Accuracy \(\sqrt{VA}\)2 - \(\sqrt{W}\)2, Calculated value  Crest Factor Range 0 - 10.00
3
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
Poly-phase Mode (1Ø3W) for Per Phase Output Setting
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 $\pm$ 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 $\pm$ (2.0% of setting + 2 counts)
OC Fold Back Response Time <1.4 s
Poly-phase Mode (1Ø3W) for Per Phase Measurement
Range 0.0-1000 Hz
Accuracy ± 0.1 Hz (501-1000 Hz Accuracy ±0.2 Hz)
Range 0.0-420.0 V
/oltage
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
± (1% of reading +5 counts) at 40.0-500 Hz ± (1% of reading +5 counts) at 40.0-500 Hz + (1% of reading +5 counts) at 501-1000 Hz + (1% of reading +5 counts) at 501-1000 Hz
Current (RMS) ± (1% of reading +5 counts) at 501-1000 Hz, ± (1% of reading +5 counts) at 501-1000 Hz,
$CF < 1.5$ and $Current$ (peak) $\le 3.6$ A $CF < 1.5$ and $Current$ (peak) $\le 7.2$ A
Accuracy  CF < 1.5 and Current (peak) ≤ 3.6 A  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
$CF < 1.5$ and $Current$ (peak) $\leq 3.6$ A $CF < 1.5$ and $Current$ (peak) $\leq 7.2$ A

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	DEL	D. I.	430XAC	460XAC
		Poly-p	hase Mode (1Ø3W) for Per Phase Measurement (Co	
	Range		0.0 A~38.0 A	0.0 A~76.0 A
Current (peak)	Accuracy		± (1% of reading + 5 cc ± (1.5% of reading + 10 ± (1.5% of reading + 10 counts	counts) at 70.1-500 Hz
		L	0.0 W~120.0 W	0.0 W~240.0 W
	Range	Н	100 W~1300 W	200 W~2600 W
Power		L	± (2% of reading +15 counts) ± (2% of reading +30 counts)	at 40.0-500 Hz and PF ≥0.2
	Accuracy	Н	± (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	
	Range		0 - 1.000	
Power Factor	Accuracy		W / VA, Calculated and displayed to three significant digits	
		L	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, Calcul	ated 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)	Accuracy		√(VA)² - (W)², Calculated value	
Crest Factor	Range		0-10.	
	Accuracy		Ap / A, Calculated and displayed to two significant digits	
			Poly-phase Mode (1Ø3W) for L1-L2 Measuremen	
- Frequency	Range		0.0-100	
, ,	Accuracy			
Voltage	Range		± 0.1 Hz (501-1000 Hz Accuracy ± 0.2 Hz) 0.0-840.0V	
	Accuracy		U.U-64U.UV  L1 Voltage + L2 Voltage, Calculated and displayed to one significant digits	
Current (RMS)	Range	L	0.005A~1.200A	0.005A~2.400A
22	ange	Н	1.00A~13.00A	2.00~26.00A
	Calculated	L		V4
	Formula	Н	Σ	
Power	Range	L	0.0W~240.0W	0.0W~480.0W
		Н	200W~2600W	400W~5200W
	Accuracy	L	20017 200017	-10011 320011
	. idea.dey	Н	L1 Power + L2 Power, Calculated value	
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
		Н	200W~2600VA	± 400W~5200VA
	Calculated Formula	L	$\sqrt{(\sum^W)^2 + (\sum^Q)^2}$ C	Calculated value
Power	Range	L	0.0VAR ~ ± 240.0VAR	0.0VAR ~ 480.0VAR
Reactive (Q)		Н	± 200VAR ~ ± 2600VAR	± 400VAR ~ 5200VAR
	Calculated Formula	L	L1 VAR + L2 VAR, Calculated value	
			DC OUTPUT	
Max. Power			3000 W	6000 W
Max. Current	0-210 \	/		28.8 A
Hux. Guireill	0-210 V 0-420 V		14.4 A 7.2 A	28.8 A 14.4 A
Ripple and Noise (RMS)	0-420 \	*		
rippie and ivoise (kivis)			Range: 5-210	
Ripple and Noise (p-p)			Range: 5-420	
прріе апа ічоїѕе (р-р)			<4.0 \	'P-P
			DC SETTINGS	
Voltage	Range		5-210 V / 5-420	
	Accuracy		± (0.2% of settin	ng + 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

MODEL		430XAC	460XAC		
		DC MEASUREMENT			
	Range	0.0-420	10.0		
Voltage					
	Accuracy	± (0.2% of settin	<u>-</u>		
Current	Range	0.05 A~19.50 A	0.05 A~39.00 A		
	Accuracy	± (1% of readin	g +5 counts)		
Power	Range	0 W~3900 W	0 W~7800 W		
Accuracy		± (2% of readin	g +5 counts)		
		PROTECTION			
Software OCP		Over Current 110% of full r	rated current >1 second		
Output Short Shut Down Speed		<1 sec			
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		
		When output frequency < 100Hz, n	naximum voltage deviation + 5V		
		When output frequency 101-500Hz,			
	L	When output frequency 501-1000Hz,			
Software OVP		When output frequency < 100Hz, m	naximum voltage deviation + 10V		
		When output frequency 101-500Hz,			
	Н		When output frequency 501-1000Hz, maximum voltage deviation + 40V		
		When output frequency $<$ 100Hz, maximum voltage deviation -5V $>$ 0.5 second  When output frequency 101-500Hz, maximum voltage deviation -15V $>$ 0.5 second			
	L	When output frequency 501-1000Hz, maximum voltage deviation -20V > 0.5 second			
Software LVP		When output frequency < 100Hz, maximum voltage deviation -10V > 0.5 second			
		When output frequency 101-500Hz, maxim			
	Н	When output frequency 501-1000Hz, maximum voltage deviation -40V > 0.5 second			
Reverse Current Protection (R	RCP)	Over 75W			
		GENERAL			
			V/Posolution 0.1 V		
		Trans-Volt 0.0-300.0 V Resolution 0.1 V  Trans-Site 0°-359° Resolution 1°			
Transient (only for 40~70 Hz)		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			
		Test, Reset, Interlock, Recall program memory 1 through 7			
Remote Input Signal		rest, reset, interiock, recall pr	ogram memory 1 through 7		
		<u> </u>			
Remote Output Signal		Pass, Fail , Tes	t-in Process		
Remote Output Signal Key Lock		<u> </u>	t-in Process rd Driven		
Remote Output Signal  Key Lock  Memory		Pass, Fail , Tes Yes, Passwo	t-in Process rd Driven teps/memory		
Remote Output Signal Key Lock Memory Ext Trigger		Pass, Fail , Tes  Yes, Passwo  50 memories, 9 s	t-in Process rd Driven teps/memory m mode, Output Signal 5 V, BNC type		
Remote Output Signal  Key Lock  Memory  Ext Trigger  Alarm Volume Setting		Pass, Fail , Tes  Yes, Passwo  50 memories, 9 s  START / END / BOTH / OFF in the Progra	t-in Process rd Driven teps/memory m mode, Output Signal 5 V, BNC type volume, 9 is loudest volume.		
Remote Output Signal  Key Lock  Memory  Ext Trigger  Alarm Volume Setting  Graphic Display		Pass, Fail , Tes  Yes, Passwo  50 memories, 9 s  START / END / BOTH / OFF in the Progra  Range: 0-9; 0 = OFF, 1 is softest	t-in Process  rd Driven  teps/memory  m mode, Output Signal 5 V, BNC type  volume, 9 is loudest volume.  ohic LCD/Contrast 9 Levels 1-9		
Remote Output Signal Key Lock Memory Ext Trigger Alarm Volume Setting Graphic Display		Pass, Fail , Tes  Yes, Passwo  50 memories, 9 s  START / END / BOTH / OFF in the Progra  Range: 0-9; 0 = OFF, 1 is softest  240 x 64 dot resolution Monogra	t-in Process  rd Driven  teps/memory  m mode, Output Signal 5 V, BNC type  volume, 9 is loudest volume.  phic LCD/Contrast 9 Levels 1-9  Full load		
Remote Output Signal Key Lock Memory Ext Trigger Alarm Volume Setting Graphic Display PFC Efficiency		Pass, Fail , Tes  Yes, Passwo  50 memories, 9 s  START / END / BOTH / OFF in the Progra  Range: 0-9; 0 = OFF, 1 is softest  240 x 64 dot resolution Monogra  PF ≥0.97 at  ≥78% (at F	t-in Process  rd Driven  teps/memory  m mode, Output Signal 5 V, BNC type  volume, 9 is loudest volume.  obic LCD/Contrast 9 Levels 1-9  Full load  ull load)		
Remote Output Signal Key Lock Memory Ext Trigger Alarm Volume Setting Graphic Display PFC Efficiency Auto Loop cycle		Pass, Fail , Tes  Yes, Passwo  50 memories, 9 s  START / END / BOTH / OFF in the Progra  Range: 0-9; 0 = OFF, 1 is softest  240 x 64 dot resolution Monogra	t-in Process  rd Driven  teps/memory  m mode, Output Signal 5 V, BNC type  volume, 9 is loudest volume.  chic LCD/Contrast 9 Levels 1-9  Full load  ull load)  OFF, 2-9999  will fold back output voltage to keep constant output current i		
Remote Output Signal Key Lock Memory Ext Trigger Alarm Volume Setting Graphic Display PFC Efficiency Auto Loop cycle Over Current Fold Back		Pass, Fail , Tes  Yes, Passwo  50 memories, 9 s  START / END / BOTH / OFF in the Progra  Range: 0-9; 0 = OFF, 1 is softest  240 x 64 dot resolution Monogra  PF ≥0.97 at  ≥78% (at F  0 = Continuous,  On/Off, Setting On when output current over setting Hi-A value it	t-in Process  rd Driven  teps/memory  m mode, Output Signal 5 V, BNC type  volume, 9 is loudest volume.  phic LCD/Contrast 9 Levels 1-9  Full load  ull load)  OFF, 2–9999  will fold back output voltage to keep constant output current is conse time <1400ms		
Remote Output Signal Key Lock Memory Ext Trigger Alarm Volume Setting Graphic Display PFC Efficiency Auto Loop cycle Over Current Fold Back		Pass, Fail , Tes  Yes, Passwo 50 memories, 9 s  START / END / BOTH / OFF in the Progra  Range: 0-9; 0 = OFF, 1 is softest  240 x 64 dot resolution Monogra   PF ≥ 0.97 at  ≥78% (at F  0 = Continuous,  On/Off, Setting On when output current over setting Hi-A value it setting Hi-A value, Resp	t-in Process  rd Driven  teps/memory  m mode, Output Signal 5 V, BNC type  volume, 9 is loudest volume.  phic LCD/Contrast 9 Levels 1-9  Full load  ull load)  OFF, 2-9999  will fold back output voltage to keep constant output current is conse time <1400ms  ted		
Remote Input Signal Remote Output Signal Key Lock Memory Ext Trigger Alarm Volume Setting Graphic Display PFC Efficiency Auto Loop cycle Over Current Fold Back Safety Agency Dimensions (W x H x D)		Pass, Fail , Tes  Yes, Passwo 50 memories, 9 s  START / END / BOTH / OFF in the Progra  Range: 0-9; 0 = OFF, 1 is softest  240 x 64 dot resolution Monogral  PF ≥0.97 at  ≥78% (at F  0 = Continuous,  On/Off, Setting On when output current over setting Hi-A value it setting Hi-A value, Resp  CE Lis  430 x 400.5	t-in Process  rd Driven  teps/memory  m mode, Output Signal 5 V, BNC type  volume, 9 is loudest volume.  phic LCD/Contrast 9 Levels 1-9  Full load  ull load)  OFF, 2-9999  will fold back output voltage to keep constant output current is conse time <1400ms  ted  x 500 mm		
Remote Output Signal Key Lock Memory Ext Trigger Alarm Volume Setting Graphic Display PFC Efficiency Auto Loop cycle Over Current Fold Back Safety Agency		Pass, Fail , Tes  Yes, Passwo  50 memories, 9 s  START / END / BOTH / OFF in the Progra  Range: 0-9; 0 = OFF, 1 is softest  240 x 64 dot resolution Monogra   PF ≥ 0.97 at  ≥78% (at F  0 = Continuous,  On/Off, Setting On when output current over setting Hi-A value it setting Hi-A value, Resp	t-in Process  rd Driven  teps/memory  m mode, Output Signal 5 V, BNC type  volume, 9 is loudest volume.  phic LCD/Contrast 9 Levels 1-9  Full load  ull load)  OFF, 2-9999  will fold back output voltage to keep constant output current is conse time <1400ms  ted  x 500 mm		

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.

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