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









Laboratory

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 : 200~240 VAC ± 10% 3Ø3W : 200~240 VAC ± 10% 3Ø4W : 346~416 VAC ± 10%	
Frequency			47 - 63	Hz	
AC OUTPUT					
	1Ø	2W	3000 VA	6000 VA	
Power Rating	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)		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	
	1Ø3W	5 - 300 V	4.6 A @ ≤220 V for per phase	9.2 A @ ≤220 V for per phase	
	200 4147	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	
	10214	5 - 150 V	110.4 A	220.8 A	
	1Ø2W	5 - 300 V	55.2 A	110.4 A	
Inrush Current	1Ø3W	5 - 150 V	36.8 A for per phase	73.6 A for per phase	
(peak)	19300	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	
	3,0444	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			± 0.2 V, <1 S response time		
DC offset			≤ ± 5 mV		
Poly-phase mode (3Ø4W) for per phase output setting			430XAC	460XAC	
Voltage	Range		5.0~300 VAC (phase), 8.6~520 VAC	(line), 150/300 V Auto Range	
voltage	Accuracy		± (0.2% of setting + 3 counts)		
Frequency	Range		40~1000 Hz Full Range Adjust		
	Accuracy		± 0.03% of setting		
Starting & Ending	Range		0~359°		
Phase Angle	Accuracy		±1°(45~65	5 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			<1.4 s		
Ramp-Up	Range		0.0~999.9 s		
Timer (second)	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~99.9 h (0=continuous)		
Dwell Timer Range Accuracy			± (0.1% + 0.1 sec)		
Poly-phase mode (3Ø4W) for pe					
Frequency	Range		430XAC 0.0-1000	460XAC	
	Range		0.0-1000 Hz		
			± 0.1 Hz (501-1000 Hz Accuracy ± 0.2 Hz)		
			± 0.1 H→ (501 1000 H→ /	Accuracy + 0.2 Hz)	
Voltage	Accuracy			•	
Voltage	Accuracy Range		0.0-420.	0 V	
Voltage	Accuracy			0 V	

	r per phase measure	ement	430XAC	460XAC	
	Range	L	0.005 A~1.200 A	0.005 A~2.400 A	
Ac Current (RMS)		Н	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	
		Н	± (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	
	Range		0.0 A~38.0 A	0.0 A~76.0 A	
S.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	nango		± (1% of reading + 5 counts) at 40.0-70.0 Hz		
Current (peak)	Accuracy		± (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		
	Range	L	0.0 W~120.0 W	0.0 W~240.0 W	
Power		Н	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		
			\pm (2% of reading +5 counts) at 40.0-500 Hz and PF $\geq\!0.2$		
		Н	\pm (2% of reading +15 counts) at 501-1000 Hz and PF $\geq\!0.5$		
ower Factor	Range		0 - 1.000		
	Accuracy		W / VA, Calculated and display	yed to three significant digits	
Power Apparent (VA)	Range	L	0.0 VA~120.0 VA	0.0 VA~240.0 VA	
		Н	100 VA~1300 VA	200 VA~2600 VA	
	Accuracy		V×A, Calcul	ated value	
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		$\sqrt{(VA)^2 - (W)^2}$, Calculated value		
rest Factor	Range		0 - 10.00		
	Accuracy		Ap / A, Calculated and displayed to two significant digits		
Poly-phase mode (3Ø4W) fo			430XAC	460XAC	
requency	Range		0.0-100	0.0 Hz	
	Accuracy		± 0.1 Hz (501-1000 Hz Accuracy ±0.2 Hz)		
oltage	Range		0.0-727.5 V		
voltage	Calculated Formula		(A+B+C)/√3, Calculated and displayed to one significant digits		
	Calculated Forn	nula	(ATDTC)/\(\sigma\), Calculated and dis	played to one significant digits	
Current (RMS)	Calculated Form	nula L	0.005A~1.200A	played to one significant digits 0.005A~2.400A	
:urrent (RMS)					
Current (RMS)		L	0.005A~1.200A 1.00A~13.00A	0.005A~2.400A	
	Range Calculated	L H	0.005A~1.200A 1.00A~13.00A	0.005A-2.400A 2.00A~26.00A	
	Range Calculated Formula	L H L	0.005A~1.200A 1.00A~13.00A Σ Σ	0.005 A-2.400A 2.00 A-26.00A $\frac{VA}{V}/\sqrt{3}$	
	Range Calculated Formula	L H L	0.005A~1.200A 1.00A~13.00A Σ Σ 0.0W~360.0W 300W~3900W	$0.005A-2.400A$ $2.00A-26.00A$ $\frac{VA}{V}/\sqrt{3}$ $0.0W-720.0W$ $600W-7800W$	
	Range Calculated Formula Range	L H L H	0.005A~1.200A 1.00A~13.00A Σ Σ 0.0W~360.0W	$0.005A-2.400A$ $2.00A-26.00A$ $\frac{VA}{V}/\sqrt{3}$ $0.0W-720.0W$ $600W-7800W$	
lower	Range Calculated Formula Range	L H L H L	0.005A~1.200A 1.00A~13.00A Σ Σ 0.0W~360.0W 300W~3900W	0.005 A~2.400A 2.00 A~26.00A $\frac{VA}{V}/\sqrt{3}$ 0.0 W~720.0W 600 W~7800W	
² ower	Range Calculated Formula Range Accuracy	L H L H L	0.005A~1.200A 1.00A~13.00A \[\frac{\sum}{\su} \] 0.0W~360.0W 300W~3900W A Power + B Power + C F	$0.005 \text{A} - 2.400 \text{A} \\ 2.00 \text{A} \sim 26.00 \text{A} \\ \hline \frac{V4}{V} / \sqrt{3} \\ \hline 0.0 \text{W} \sim 720.0 \text{W} \\ 600 \text{W} \sim 7800 \text{W} \\ \hline \text{Power, Calculated value} \\ \hline 0000$	
Power	Range Calculated Formula Range Accuracy	L H L H L	0.005A~1.200A 1.00A~13.00A \[\sum_{\subset} \sum_	$0.005 \text{A} - 2.400 \text{A}$ $2.00 \text{A} - 26.00 \text{A}$ $\frac{V4}{V} / \sqrt{3}$ $0.0 \text{W} - 720.0 \text{W}$ $600 \text{W} - 7800 \text{W}$ Power, Calculated value	
Yower Yower Factor	Range Calculated Formula Range Accuracy Range Resolution	L H L H L	0.005A~1.200A 1.00A~13.00A \[\sum_{\subset} \sum_	0.005A~2.400A 2.00A~26.00A VA/V /√3 0.0W~720.0W 600W~7800W Power, Calculated value	
l'ower Factor	Range Calculated Formula Range Accuracy Range Resolution Accuracy	L H L H L H	$\begin{array}{c} 0.005 \text{A} \sim 1.200 \text{A} \\ 1.00 \text{A} \sim 13.00 \text{A} \\ \hline \Sigma \\ \hline \Sigma \\ \hline 0.00 \text{W} \sim 360.0 \text{W} \\ \hline 300 \text{W} \sim 3900 \text{W} \\ \hline & \text{A Power + B Power + C F} \\ \hline & 0 \sim 1. \\ \hline & 0.00 \\ \hline & \overline{\Sigma^P} \\ \hline \Sigma^{VA} \end{array}$	0.005A~2.400A 2.00A~26.00A VA/V /√3 0.0W~720.0W 600W~7800W Power, Calculated value 000 01 ed to three significant digits	
Power Factor	Range Calculated Formula Range Accuracy Range Resolution Accuracy	L H L H L H L	$0.005A~1.200A$ $1.00A~13.00A$ $\frac{\Sigma}{\Sigma}$ $0.0W~360.0W$ $300W~3900W$ $A Power + B Power + C F$ $0 - 1.$ 0.00 $\frac{\Sigma^{P}}{\Sigma^{FA}} Calculated and displayed $ $0.0VA~360.0VA$	0.005A~2.400A 2.00A~26.00A 2.00A~26.00A 0.0W~720.0W 600W~7800W Power, Calculated value 000 01 ed to three significant digits 0.0VA~720.0VA 600VA~7800VA	
ower Factor ower Factor	Range Calculated Formula Range Accuracy Range Resolution Accuracy Range Calculated Formula	L H L H L H L H L H L H L L H L L H L L H L L H L L H L L H L	$0.005A-1.200A \\ 1.00A-13.00A \\ \hline \frac{\Sigma}{\Sigma} \\ 0.0W-360.0W \\ 300W-3900W \\ \hline A Power + B Power + C F \\ \hline 0 - 1. \\ 0.00 \\ \hline \frac{\Sigma^P}{\Sigma^M} \text{ Calculated and displayed} \\ 0.0VA-360.0VA \\ 300VA-3900VA \\ \hline $	$\begin{array}{c} 0.005 \text{A} - 2.400 \text{A} \\ 2.00 \text{A} - 26.00 \text{A} \\ \hline VA \\ \hline V \\ / \sqrt{3} \\ \hline \\ 0.0 \text{W} - 720.0 \text{W} \\ 600 \text{W} - 7800 \text{W} \\ \hline \\ 000 \\ 01 \\ \text{ed to three significant digits} \\ \hline \\ 0.0 \text{VA} - 720.0 \text{VA} \\ 600 \text{VA} - 7800 \text{VA} \\ \hline \\ + (\sum Q)^2 \\ \end{array}$	
ower Factor ower Apparent (VA)	Range Calculated Formula Range Accuracy Range Resolution Accuracy Range Calculated	L H L H L H L H L L H L L	$0.005A-1.200A \\ 1.00A-13.00A \\ \hline \frac{\Sigma}{\Sigma} \\ \hline 0.0W-360.0W \\ 300W-3900W \\ \hline A Power + B Power + C F \\ \hline 0 - 1.1 \\ \hline 0.00 \\ \hline \frac{\Sigma^P}{\Sigma^{VA}} \text{ Calculated and display} \\ 0.0VA-360.0VA \\ \hline 300VA-3900VA \\ \hline \hline 0.0VAR-360.0VAR \\ \hline$	$0.005 \text{A} - 2.400 \text{A} \\ 2.00 \text{A} - 26.00 \text{A} \\ \hline \frac{VA}{V} / \sqrt{3} \\ \hline 0.0 \text{W} - 720.0 \text{W} \\ 600 \text{W} - 7800 \text{W} \\ \hline 000 \\ \hline 01 \\ \text{ed to three significant digits} \\ \hline 0.0 \text{VA} - 720.0 \text{VA} \\ \hline 600 \text{VA} - 7800 \text{VA} \\ \hline + (\sum Q)^2 \\ \hline 0.0 \text{VAR} - 720.0 \text{VAR} \\ \hline \end{array}$	
Power Factor Power Apparent (VA)	Range Calculated Formula Range Accuracy Range Resolution Accuracy Range Calculated Formula Range	L H L H L H L H L H L H L H L H L H L H	$0.005A-1.200A \\ 1.00A-13.00A \\ \hline \frac{\Sigma}{\Sigma} \\ \hline 0.0W-360.0W \\ 300W-3900W \\ \hline A Power + B Power + C F \\ \hline 0 - 1. \\ \hline 0.00 \\ \hline \frac{\Sigma^P}{\Sigma^{FA}} $	$\begin{array}{c} 0.005 \text{A} - 2.400 \text{A} \\ 2.00 \text{A} - 26.00 \text{A} \\ \hline VA \\ \hline V \\ / \sqrt{3} \\ \hline \\ 0.0 \text{W} - 720.0 \text{W} \\ 600 \text{W} - 7800 \text{W} \\ \hline \\ 000 \\ 01 \\ \text{ed to three significant digits} \\ \hline \\ 0.0 \text{VA} - 720.0 \text{VA} \\ 600 \text{VA} - 7800 \text{VA} \\ \hline \\ + (\sum Q)^2 \\ \end{array}$	
Power Factor Power Apparent (VA) Power Reactive (Q)	Range Calculated Formula Range Accuracy Range Resolution Accuracy Range Calculated Formula	L H L H L H L H L L H L L	$0.005A-1.200A \\ 1.00A-13.00A \\ \hline \frac{\Sigma}{\Sigma} \\ \hline 0.0W-360.0W \\ 300W-3900W \\ \hline A Power + B Power + C F \\ \hline 0 - 1.1 \\ \hline 0.00 \\ \hline \frac{\Sigma^P}{\Sigma^{VA}} \text{ Calculated and display} \\ 0.0VA-360.0VA \\ \hline 300VA-3900VA \\ \hline \hline 0.0VAR-360.0VAR \\ \hline$	$0.005 \text{A} - 2.400 \text{A} \\ 2.00 \text{A} - 26.00 \text{A} \\ \hline \frac{VA}{V} / \sqrt{3} \\ \hline 0.0 \text{W} - 720.0 \text{W} \\ 600 \text{W} - 7800 \text{W} \\ \hline 000 \\ \hline 01 \\ \text{ed to three significant digits} \\ \hline 0.0 \text{VA} - 720.0 \text{VA} \\ \hline 600 \text{VA} - 7800 \text{VA} \\ \hline + (\sum Q)^2 \\ \hline 0.0 \text{VAR} - 720.0 \text{VAR} \\ \hline 600 \text{VAR} - 7800 \text{VAR} \\ \hline 600 \text{VAR} - 7800 \text{VAR} \\ \hline \end{array}$	
Power Factor Power Apparent (VA) Power Reactive (Q)	Range Calculated Formula Range Accuracy Range Resolution Accuracy Range Calculated Formula Range Accuracy	L H L H L H L H L H L H L H L L H L L H L L H L L H L L H L L H L L H L L H L L H L L L H L	$0.005A-1.200A$ $1.00A-13.00A$ $\frac{\sum}{\sum}$ $0.0W-360.0W$ $300W-3900W$ A Power + B Power + C F $0-1.$ 0.00 $\frac{\sum^{P}}{\sum^{VA}}$ Calculated and display $0.0VA-360.0VA$ $300VA-3900VA$ $\sqrt{(\sum^{W})^{2}}$ $0.0VAR-360.0VAR$ $300VAR-3900VAR$	$0.005 \text{A} - 2.400 \text{A} \\ 2.00 \text{A} - 26.00 \text{A} \\ \hline \frac{VA}{V} / \sqrt{3} \\ \hline 0.0 \text{W} - 720.0 \text{W} \\ 600 \text{W} - 7800 \text{W} \\ \hline 000 \\ \hline 01 \\ \text{ed to three significant digits} \\ \hline 0.0 \text{VA} - 720.0 \text{VA} \\ \hline 600 \text{VA} - 7800 \text{VA} \\ \hline + (\sum Q)^2 \\ \hline 0.0 \text{VAR} - 720.0 \text{VAR} \\ \hline 600 \text{VAR} - 7800 \text{VAR} \\ \hline 600 \text{VAR} - 7800 \text{VAR} \\ \hline \end{array}$	
Power Factor Power Factor Power (VA) Power Reactive (Q)	Range Calculated Formula Range Accuracy Range Resolution Accuracy Range Calculated Formula Range Accuracy	L H L H L H L H L H L H L H L L H L L H L L H L L H L L H L L H L L H L L H L L H L L L H L	0.005A~1.200A 1.00A~13.00A $\frac{\sum}{\sum}$ 0.0W~360.0W 300W~3900W A Power + B Power + C F 0 - 1.1 0.00 $\frac{\sum^{P}}{\sum^{VA}}$ Calculated and displays 0.0VA~360.0VA 300VA~3900VA $\sqrt{(\sum^{W})^{2}}$ 0.0VAR~360.0VAR 300VAR~360.0VAR	0.005A- 2.400 A 2.00 A- 2.400 A 3.00 A- 3.00 A 4.00 A- 3.00 A 4.00 A- 4.00 A- 4.00 A	
Power Factor Power Apparent (VA)	Range Calculated Formula Range Accuracy Range Resolution Accuracy Range Calculated Formula Range Accuracy	L H L H L H L H L H L H L H L L H L L H L L H L L H L L H L L H L L H L L H L L H L L L H L	$0.005A-1.200A \\ 1.00A-13.00A \\ \hline \frac{\Sigma}{\Sigma} \\ \hline 0.0W-360.0W \\ 300W-3900W \\ \hline A Power + B Power + C F \\ \hline 0 - 1. \\ \hline 0.00 \\ \hline \frac{\Sigma^P}{\Sigma^M} $	0.005 A~2.400A 2.00 A~26.00A $VA \over V / \sqrt{3}$ 0.0 W~720.0W 600 W~7800W Power, Calculated value 000 01 ed to three significant digits 0.0 VA~720.0VA 600 VA~7800VA $+(\sum Q)^2$ 0.0 VAR~720.0VAR 600 VAR~7800VAR AR, Calculated value	

Range Resolution Accuracy Range		40~1000 Hz Full Rang 0.1 Hz at 40.0~99.9 Hz , 1 Hz			
Resolution Accuracy Range		0.1 Hz at 40.0~99.9 Hz , 1 Hz	at 100~1000 Hz		
Range					
Range		± 0.03% of setti			
		0~359°			
Resolution		1°			
Accuracy		± 1°(45~65 HZ)			
5V~150V		0.01~27.60 A	0.01~55.20 A		
5V~300V		0.01~13.80 A	0.01~33.20 A		
Accuracy		± (2.0% of setting + 2 counts)			
		< 1.4 s			
asurement		430XAC	460XAC		
Range		0.0~1000 Hz			
Accuracy		± 0.1 Hz (501~1000 Hz Accuracy ±0.2 Hz)			
Range		0.0~420.0 V			
Accuracy		± (0.2% of reading + 3 counts)			
Range		0.05 A~39.00 A	0.05 A~78.00		
Accuracy		\pm (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, CF <1.5 and Current (peak) ≤82.8 A	± (1% of reading +5 counts) at 501~1000 Hz, CF <1.5 and Current (peak) ≤165.6 A		
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			
Range		-	0 W~7800 W		
Accuracy		± (2% of reading +5 counts) at 40.0~500 Hz and PF ≥0.2			
Pange		± (2% of reading +15 counts) at 501~1000 Hz and PF ≥0.5			
-			0 VA~7800 VA		
Accuracy		Ap / A, Calculated and displayed to	o two significant digits		
er phase outpu		430XAC	460XAC		
Range		5.0~300 VAC (phase), 10.0~600 VAC (li	ne), 150/300 V Auto Range		
Accuracy		± (0.2% of setting + 3 counts)			
Range		40~1000 Hz Full Range Adjust			
		± 0.03% of setting			
Accuracy			2)		
			0.01~18.40 A		
			0.01~18.40 A		
Accuracy		± (2.0% of setting + 2 counts)			
		<1.4 s			
er phase measi		430XAC	460XAC		
Range		0.0-1000 Hz			
Accuracy		± 0.1 Hz (501-1000 Hz Accuracy ±0.2 Hz)			
Range		0.0-420.0 V			
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		
		± (1% of reading +5 counts) at 40.0-500 Hz	± (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	± (1% of reading +5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) ≤7.2 A		
Accuracy	Н	± (1% of reading + 5counts) at 40.0-500 Hz ± (1% of reading +5 counts) at 501-1000 Hz,	± (1% of reading +5 counts) at 40.0-500 Hz ± (1% of reading +5 counts) at 501-1000 Hz,		
	Accuracy Range Accuracy er phase output Range Accuracy Range	Range Accuracy Er phase measure- Range Accuracy Range Accuracy L H	Range		

Poly-phase mode (1Ø3W) for per phase measure- ment			430XAC	460XAC	
	Range		0.0 A~38.0 A	0.0 A~76.0 A	
Current (peak)	Accuracy		± (1% of reading + 5 co		
, ,			± (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		
		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)		
Power		L	± (2% of reading +30 counts)		
	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		
Power Factor	Range		0 - 1.000		
Tower ractor	Accuracy		W / VA, Calculated and displayed to three significant digits		
Power	Range	L	0.0 VA~120.0 VA	0.0 VA~240.0 VA	
Apparent (VA)		Н	100 VA~1300 VA	200 VA~2600 VA	
	Accuracy		VxA, Calcul	ated value	
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		0-10.00		
	Accuracy		Ap / A, Calculated and displa	yed to two significant digits	
Poly-phase mode (1Ø3W)	for L1-L2 measure		430XAC	460XAC	
Frequency	Range		0.0-100	0.0 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	
		Н	1.00A~13.00A	2.00~26.00A	
	Calculated	L			
	Formula	Н	Σ	V	
Power	Range	L	0.0W~240.0W	0.0W~480.0W	
		Н	200W~2600W	400W~5200W	
	Accuracy	L	L1 Power + L2 Powe	r Calculated value	
		Н	ETTOWETTEZTOWE	r, Calculated value	
Power Factor	Range		0 - 1.000		
	Calculated Forn	nula	(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	L	$\sqrt{(\sum^W)^2 + (\sum^Q)^2}$ C	Calculated value	
	Formula	Н	Y(Z) (Z)		
Power Reactive (Q)	Range	L	0.0VAR ~ ± 240.0VAR	0.0VAR ~ 480.0VAR	
		Н	± 200VAR ~ ± 2600VAR	± 400VAR ~ 5200VAR	
	Calculated Formula	L	L1 VAR + L2 VAR,	Calculated value	
DC OUTPUT		Н			
Max. Power			3000 W	6000 W	
Max. Current	0-210 V		14.4 A	28.8 A	
iviax. Current	0-420 V		7.2 A	14.4 A	
Ripple and Noise (RMS)			Range: 5-210		
, , , , , , , , , , , , , , , , , , , ,			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	
voltage					
	Accuracy		± (0.2% of setting	-	
	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		± (2.0% of setting + 2 counts)		

DC MEASUREMENT		430XAC	460XAC	
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 read	ding +5 counts)	
Power	Range	0 W~3900 W	0 W~7800 W	
	Accuracy	± (2% of reac	ding +5 counts)	
PROTECTION				
Software OCP		Over Current 110% of fu	ıll 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		When output frequency < 100Hz	z, maximum voltage deviation + 5V	
	L	When output frequency 101-500Hz, maximum voltage deviation + 15V		
		When output frequency 501-1000Hz, maximum voltage deviation + 20V		
		When output frequency < 100Hz, maximum voltage deviation + 10V		
	Н	When output frequency 101-500Hz, maximum voltage deviation + 30V		
0.6		When output frequency 501-1000Hz, maximum voltage deviation + 40V		
Software LVP	L		imum 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		
		When output frequency < 100Hz, maximum voltage deviation -10V > 0.5 second		
	Н	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)	Ove	er 75W	
GENERAL				
Transient (only for 40~70 Hz)		Trans-Volt 0.0-300	0.0 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 constar output current is setting Hi-A value, Response time <1400ms		
Safety Agency		CE Listed		
Dimensions (W x H x D)		430 × 400.5 × 500 mm		
		16.93 x 15.77 x 19.69 in		
Net Weight		105.8 lbs (48 kg)	125.6 lbs (57 kg)	
Operation Environment			0-80% RH	

Specifications subject to change