# **400XAC Series** (E

**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<sup>®</sup> 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

#### Standard

USB/RS-232 Interface

#### **Options**

- GPIB Interface
- Ethernet Interface



### APT Benefits



# **Applicable Industries**





Appliance







Phase         1Ø         1Ø or 3Ø           Voltage         1Ø:200~240 VAC ± 10% 3Ø3W:200~240 VAC ± 10% 3Ø3W:200~240 VAC ± 10% 3Ø4W:346~416 VAC ± 10%           Frequency         47-63 Hz           AC OUTPUT         47-63 Hz           Power Rating         1Ø2W         3000 VA         6000 VA           1Ø3W         Total 2000 VA (1000 VA per phase)         Total 4000 VA (2000 VA per phase)           JØ4W         Total 3000 VA (1000 VA per phase)         Total 6000 VA (2000 VA per phase)           DC         3000 VA         6000 VA			
Voltage         200 - 240 VAC         3/// 3/// 3/// 3/// 3/// 3//// 3////////			
AC OUTPUT         102W         3000 VA         6000 VA           Power Rating         103W         Total 2000 VA (1000 VA per phase)         Total 4000 VA (2000 VA per phase)           3004W         Total 3000 VA (1000 VA per phase)         Total 6000 VA (2000 VA per phase)			
1/02W         3/00 VA         6/000 VA           Power Rating         1/03W         Total 2000 VA (1000 VA per phase)         Total 4/000 VA (2000 VA per phase)           3/04W         Total 3/000 VA (1000 VA per phase)         Total 6/000 VA (2000 VA per phase)			
Image: Power Rating         1/Ø3W         Total 2000 VA (1000 VA per phase)         Total 4000 VA (2000 VA per phase)           3/Ø4W         Total 3000 VA (1000 VA per phase)         Total 6000 VA (2000 VA per phase)			
Power Rating         3Ø4W         Total 3000 VA (1000 VA per phase)         Total 6000 VA (2000 VA per phase)			
3Ø4W         Total 3000 VA (1000 VA per phase)         Total 6000 VA (2000 VA per phase)			
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			
Max. Current (RMS) $5 - 150 V$ $9.2 A @ \le 110 V$ for per phase $18.4 A @ \le 110 V$ for per phase $5 - 300 V$ $4.6 A @ \le 220 V$ for per phase $9.2 A @ \le 220 V$ 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			
1/02W         5 - 150 V         110.4 A         220.8 A           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			
Industriculation         1/03W         3 - 150 V			
S = 500 V         36.8 A for per phase         73.6 A for per phase           73.6 A for per phase         73.6 A for per phase			
3Ø4W         3 5.0 K lot per phase         36.8 A for per phase           5 - 300 V         18.4 A for per phase         36.8 A for per phase			
Phase 102W, 103W, 304W, provided option			
<0.5% (Resistive Load) at 40.0~70.0 Hz and output voltage within the 80~140 VAC			
THD (Total Harmonic Distortion)       at Low Range or the 160~280 VAC at High Range.			
Crest Factor ≥3			
Line Regulation ± 0.1 V	±0.1 V		
Load Regulation (Hardware)       ± (1% of output +1 V) at Resistive Load, <400 μS response time	$\pm$ (1% of output +1 V) at Resistive Load, <400 $\mu S$ response time		
Load Regulation (Software)     ± 0.2 V, <1 S response time	± 0.2 V, <1 S response time		
DC offset ≤±5 mV	≤±5 mV		
Poly-phase mode (3Ø4W) for per phase output setting     430XAC     460XAC			
Noltage         Range         5.0~300 VAC (phase), 8.6~520 VAC (line), 150/300 V Auto Range			
	± (0.2% of setting + 3 counts)		
Frequency	40~1000 Hz Full Range Adjust		
Starting &         Range         0~359°	± 0.03% of setting		
Ending Accuracy +1º(45~65 H7)			
Phase Angle			
Phase Angle         5V~150 V         0.01~9.20 A         0.01~18.40 A			
Phase Angle         SV~150 V         0.01~9.20 A         0.01~18.40 A           Current Hi Limit         SV~300 V         0.01~4.60 A         0.01~9.20 A			
Phase Angle         SV-150 V         0.01~9.20 A         0.01~18.40 A           Current Hi Limit         SV~300 V         0.01~4.60 A         0.01~9.20 A           Accuracy         ± (2.0% of setting + 2 counts)         ± (2.0% of setting + 2 counts)			
Phase Angle         SV=100         Current Hi         SV=150 V         O.01~9.20 A         O.01~18.40 A         O.01~18.40 A         O.01~20.00         O.01~20			
Phase Angle         SV~150         O.01~18.40 A           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         Range         .0.0-999.9 s			
Phase Angle         Image of the constraint of the c			
Phase Angle         Strain (Strain (St			
Phase Angle         Straig         Straig <thstraig< th=""> <thstraig< th=""> <thstrai< th=""><td></td></thstrai<></thstraig<></thstraig<>			
Phase Angle         Strain (Strain (St			
Phase Angle         SV-160         Contract (Contract (Contratit))))))))))))))			
Phase Angle         Function			
Phase Angle         SV-150 V         O.01~9.20 A         O.01~9.20 A           Current Hi         5V-300 V         0.01~0.01~9.20 A         0.01~0.01~9.20 A           SV-300 V         0.001~4.60 A         0.01~0.01~9.20 A           Accuracy         Generation (Control of Control of Contro of Control of Control of Control of Control of Control o			
Phase Ange         SV-150 V         Generation           SV-150 V         0.01~0.00 A         0.01~18.40 A           SV-300 V         0.01~0.00 A         0.01~0.00 A           Accuracy         0.01~4.60 A         0.01~2.00 A           Accuracy         C-C-Fold Back Test			
Phase Angle         SV-150 V         Contract (Contraction)           Furner Hi         5V-150 V         0.01 · 0.01 · 0.00 A         0.01 · 0.01 · 0.00 A           SV-300 V         Gold 0.01 · 0.01 · 0.00 A         0.01 · 0.01 · 0.00 A           Accuracy         Gold 0.01 · 0.00 · 0			
Phase Angle         View (Second Content of Contend of C			
Phase Angle         Vol 000000000000000000000000000000000000			
Phase Angle         V         SN			

Poly-phase m per phase me			430XAC	460XAC	
	Range	L	0.005 A~1.200 A	0.005 A~2.400 A	
Current (RMS)	Range	H	1.00 A~13.00 A		
	A	п		2.00 A~26.00 A	
	Accuracy		$\pm$ (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	± (1% of reading +5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) ≤7.2 A	
			$\pm$ (1% of reading +5 counts) at 40.0-500 Hz	$\pm$ (1% of reading +5 counts) at 40.0-500 Hz	
		Н	$\pm$ (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	
	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 cou	unts) at 501 - 1000 Hz and CF <1.5	
	Pango	L	0.0 W~120.0 W	0.0 W~240.0 W	
Power	Range				
		Н	100 W~1300 W	200 W~2600 W	
	Accuracy	L	-	nts) at 40.0-500 Hz and PF $\ge 0.2$	
			$\pm$ (2% of reading +30 counts) at 501-1000 Hz and PF $\geq$ 0.5		
		н		ts) at 40.0-500 Hz and PF ≥0.2	
			$\pm$ (2% of reading +15 counts) at 501-1000 Hz and PF $\geq 0.5$		
Power Factor	Range		0	- 1.000	
	Accuracy		W / VA, Calculated and dis	played 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		V×A, Cal	Iculated 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		
Crest Factor	Range		0 - 10.00		
	Accuracy		Ap / A, Calculated and displayed to two significant digits		
Poly-phase m			430XAC	460XAC	
Σmeasureme	ent				
Frequency	Range		0.0-1000.0 Hz		
	Accuracy		± 0.1 Hz (501-1000 Hz Accuracy ±0.2 Hz)		
Voltage			0.0-727.5 V		
	Calculated Formula			displayed to one significant digits	
Current (RMS)	Range	L	0.005A~1.200A	0.005A~2.400A	
		Н	1.00A~13.00A	2.00A~26.00A	
	Calculated Formula	L	$\frac{\sum VA}{\sum V}$	$\frac{1}{\sqrt{3}}$	
_		H			
Power	Range	L	0.0W~360.0W	0.0W~720.0W	
		H	300W~3900W	600W~7800W	
	Accuracy		A Power + B Power +	C Power, Calculated value	
		Н			
Power Factor	Range			- 1.000	
	Resolution		0.001		
			$\sum p$	$rac{\sum^{P}}{\sum^{VA}}$ Calculated and displayed to three significant digits	
	Accuracy		$\frac{\sum^{p}}{\sum^{VA}}$ Calculated and disp	layed to three significant digits	
Power	Accuracy	L	$\frac{\Sigma^{P}}{\Sigma^{VA}}$ Calculated and disp 0.0VA~360.0VA	layed to three significant digits 0.0VA~720.0VA	
Power Apparent (VA)		L	<u> </u>	0.0VA~720.0VA	
	Accuracy		0.0VA~360.0VA 300VA~3900VA	0.0VA~720.0VA 600VA~7800VA	
	Accuracy Range	Н	0.0VA~360.0VA	0.0VA~720.0VA 600VA~7800VA	
Apparent (VA)	Accuracy Range Calculated Formula	H L H	0.0VA~360.0VA 300VA~3900VA $\sqrt{(\Sigma^{W})^2}$	0.0VA~720.0VA 600VA~7800VA + (∑ <sup>Q</sup> ) <sup>2</sup>	
	Accuracy Range Calculated	H L H L	$\frac{2}{0.0VA^{3}60.0VA}$ 300VA~3900VA $\sqrt{(\Sigma^{W})^{2}}$ 0.0VAR~360.0VAR	$0.0VA \sim 720.0VA$ $600VA \sim 7800VA$ $+ (\sum^{Q})^{2}$ $0.0VAR \sim 720.0VAR$	
Apparent (VA) Power	Accuracy Range Calculated Formula Range	H L H L H	0.0VA~360.0VA 300VA~3900VA $\sqrt{(\Sigma^{W})^2}$	0.0VA~720.0VA 600VA~7800VA + (∑ <sup>Q</sup> ) <sup>2</sup>	
Apparent (VA) Power	Accuracy Range Calculated Formula	H L H L H	$\frac{2}{0.0VA \sim 360.0VA}$ 300VA ~ 3900VA $\sqrt{(\sum^{W})^{2}}$ 0.0VAR ~ 360.0VAR 300VAR ~ 3900VAR	$0.0VA \sim 720.0VA$ $600VA \sim 7800VA$ $+ (\sum^{Q})^{2}$ $0.0VAR \sim 720.0VAR$	
Apparent (VA) Power Reactive (Q)	AccuracyRangeCalculatedFormulaRangeAccuracy	H L H L H L H	$\frac{2}{0.0VA \sim 360.0VA}$ 300VA ~ 3900VA $\sqrt{(\sum^{W})^{2}}$ 0.0VAR ~ 360.0VAR 300VAR ~ 3900VAR	0.0VA~720.0VA 600VA~7800VA + (∑ <sup>Q</sup> ) <sup>2</sup> 0.0VAR~720.0VAR 600VAR~7800VAR	
Apparent (VA) Power	AccuracyRangeCalculatedFormulaRangeAccuracy	H L H L H L H	$\frac{2}{0.0VA \sim 360.0VA}$ 300VA ~ 3900VA $\sqrt{(\sum^{W})^{2}}$ 0.0VAR ~ 360.0VAR 300VAR ~ 3900VAR	0.0VA~720.0VA 600VA~7800VA + (∑ <sup>Q</sup> ) <sup>2</sup> 0.0VAR~720.0VAR 600VAR~7800VAR	
Apparent (VA) Power Reactive (Q) Single-phase Setting	Accuracy Range Calculated Formula Range Accuracy mode (10/22)	H L H L H L H	$\frac{2}{0.0VA \sim 360.0VA}$ $\frac{300VA \sim 3900VA}{\sqrt{(\Sigma^{W})^{2}}}$ $\frac{0.0VAR \sim 360.0VAR}{300VAR \sim 3900VAR}$ $A VAR + B VAR + C$ $\frac{430XAC}{2}$	0.0VA~720.0VA 600VA~7800VA + (∑ <sup>Q</sup> ) <sup>2</sup> 0.0VAR~720.0VAR 600VAR~7800VAR CVAR, Calculated value 460XAC	
Apparent (VA) Power Reactive (Q) Single-phase	AccuracyRangeCalculatedFormulaRangeAccuracy	H L H L H L H	$\frac{2}{0.0VA^{-3}60.0VA}$ $\frac{300VA^{-3}900VA}{\sqrt{(\Sigma^{W})^{2}}}$ $\frac{0.0VAR^{-3}60.0VAR}{300VAR^{-3}900VAR}$ $A VAR + B VAR + C$ $\frac{430XAC}{5.0^{-3}00 VAC, 12}$	0.0VA~720.0VA 600VA~7800VA + (∑ <sup>Q</sup> ) <sup>2</sup> 0.0VAR~720.0VAR 600VAR~7800VAR C VAR, Calculated value	
Apparent (VA) Power Reactive (Q) Single-phase Setting	Accuracy Range Calculated Formula Range Accuracy mode (10/22) Range	H L H L H L H	$\frac{2}{0.0VA \sim 360.0VA}$ $\frac{300VA \sim 3900VA}{\sqrt{(\Sigma^{W})^{2}}}$ $\frac{0.0VAR \sim 360.0VAR}{300VAR \sim 3900VAR}$ $A VAR + B VAR + C$ $\frac{430XAC}{5.0 \sim 300 VAC, 12}$	0.0VA~720.0VA 600VA~7800VA + (∑ <sup>Q</sup> ) <sup>2</sup> 0.0VAR~720.0VAR 600VAR~7800VAR CVAR, Calculated value 460XAC 50/300 V Auto Range	

Single-phase mode (1Ø2W) Setting		2W)	430XAC	460XAC	
Frequency			40~1000 Hz	Full Range Adjust	
,	Resolution	1		Hz , 1 Hz at 100~1000 Hz	
	Accuracy			% of setting	
				~359°	
Starting & Ending Phase	Range		Ū		
Angle	Resolution		. 10/.		
	Accuracy			45~65 HZ)	
Current Hi	5V~150V		0.01~27.60 A	0.01~55.20 A	
Limit	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		2W)	430XAC	460XAC	
Frequency	Range		0.0~	~1000 Hz	
	Accuracy		± 0.1 Hz (501~1000	0 Hz Accuracy ±0.2 Hz)	
Voltage	Range		0.0-	~420.0 V	
	Accuracy		± (0.2% of re-	ading + 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 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	
Current (peak)	Range		0.0 A~114.0 A	0.0 A~228.0 A	
<b>4</b>	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	
Power	Range		0 W~3900 W	0 W~7800 W	
	Accuracy			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		
	Accuracy		W / VA, Calculated and displayed to three significant digits		
Power	Range		0 VA~3900 VA 0 VA~7800 VA		
Apparent	Accuracy		V×A. Cal	culated value	
Power	Range		0 VAR~3900 VAR	0 VAR~7800 VAR	
Reactive (Q)	Accuracy			Calculated value	
Crest Factor	Range		0 - 10.00		
crestractor	Accuracy				
Poly-phase mo	ode (1Ø3\		Ap / A, Calculated and displayed to two significant digits 430XAC 460XAC		
per phase out		lg	5.0.200///C(-base) 10.0. (0		
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		$\pm$ 0.03% of setting		
Starting & Ending Phase	Range		0	~359°	
Angle	Accuracy		± 1°(4	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 Res		ne	<1.4 s		
Poly-phase mo per phase mea	ode (1Ø3\	N) for	430XAC	460XAC	
	Range			-1000 Hz	
Frequency	Accuracy		± 0.1 Hz (501-1000 Hz Accuracy ±0.2 Hz)		
			± 0.1 H2 (501-1000 H2 ACCURCY ±0.2 H2) 0.0-420.0 V		
Voltage	Range			ading + 3 counts)	
	Accuracy Range Accuracy	L	0.005 A~1.200 A	0.005 A~2.400 A	
		L H	1.00 A~13.00 A	2.00 A~2.400 A 2.00 A~26.00 A	
		п			
		L	$\pm$ (1% of reading +5 counts) at 40.0-500 Hz $\pm$ (1% of reading +5 counts) at 501 1000 Hz	$\pm$ (1% of reading +5 counts) at 40.0-500 Hz $\pm$ (1% of reading +5 counts) at 501 1000 Hz	
Current (RMS)			± (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 + 5counts) 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	

Poly-phase me			430XAC	460XAC
	Range		0.0 A~38.0 A	0.0 A~76.0 A
Current (peak)	<u> </u>		± (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	
	Denne	L	0.0 W~120.0 W	0.0 W~240.0 W
Power	Range	Н	100 W~1300 W	200 W~2600 W
	Accuracy	L	$\pm$ (2% of reading +15 counts) at 40.0-500 Hz and PF ≥0.2 $\pm$ (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 ≥0.2	
	H Range		± (2% of reading +15 counts) at 501-1000 Hz and PF ≥0.5 0 - 1.000	
Power Factor	Accuracy		W / VA, Calculated and displayed to three significant digits	
		L	0.0 VA~120.0 VA	0.0 VA~240.0 VA
Power	Range	H	100 VA~1300 VA	200 VA~2600 VA
Apparent (VA)	Accuracy			culated value
	riccuracy	L	0.0 VAR~120.0 VAR	0.0 VAR~240.0 VAR
Power	Range	H	0 VAR~1300 VAR	0 VAR~2600 VAR
Reactive (Q)	Accuracy	п		
Creat Frant	Accuracy		$\sqrt{(VA)^2 - (W)^2}$ , Calculated value	
Crest Factor	Range			-10.00
	Accuracy		Ap / A, Calculated and disp	played to two significant digits
Poly-phase me L1-L2 measure		/) for	430XAC	460XAC
Frequency	Range		0.0-1000.0 Hz	
	Accuracy		$\pm$ 0.1 Hz (501-1000 Hz Accuracy $\pm$ 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 H		$\frac{\sum^{VA}}{\sum^{V}}$	
Power	Range	L	0.0W~240.0W	0.0W~480.0W
	5	Н	200W~2600W	400W~5200W
	Accuracy	L H		wer, Calculated value
Power Factor	Range		0 - 1.000	
Towerractor	Calculated Formula			ed and displayed to three significant digits
Power		ı	0.0W~240.0VA	0.0W~480.0VA
Apparent (VA)	Range	L L		± 400W~5200VA
	<u></u>	Н	200W~2600VA	
	Calculated Formula	L H	$\sqrt{(\sum^{W})^{2} + (\sum^{Q})^{2}}$ Calculated value	
Power	Range	L	0.0VAR ~ ± 240.0VAR	0.0VAR ~ ± 480.0VAR
Reactive (Q)		Н	± 200VAR ~ ± 2600VAR	± 400VAR ~ ± 5200VAR
	Calculated			
	Formula	Н	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
	0-420 V		7.2 A	14.4 A
Ripple and Noise			Range: 5-210 V <700 mV	
Ripple and Noise	e (p-p)		Range: 5-420 V <1100 mV <4.0 Vp-p	
DC SETTINGS	Ripple and Noise (p-p)			
	D			
Voltage	Range			120 V Selectable
	Accuracy			tting + 3 counts)
Current Hi	5 V-210 V		14.40 A	0.10 - 28.80 A
Limit	5 V-420 V		7.20 A	0.10 - 14.40 A
	Accuracy		$\pm$ (2.0% of setting + 2 counts)	
OC Fold Back Re	sponse Time	2	<1.4 s	

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 rea	ading +5 counts)	
Power	Range	0 W~3900 W	0 W~7800 W	
	Accuracy	± (2% of rea	ading +5 counts)	
PROTECTION				
Software OCP		Over Current 110% of full rated current >1 second		
Output Short Sh	nut Down Speed	<1 second		
Software OPP		When over Power 105 ~	110% of full power >5 second.	
		When over Power >110	0% 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 < 100H	Hz, maximum voltage deviation + 5V	
	L		Hz, maximum voltage deviation + 15V	
		When output frequency 501-1000	)Hz, maximum voltage deviation + 20V	
		When output frequency < 100H	lz, maximum voltage deviation + 10V	
	Н	When output frequency 101-500	Hz, maximum voltage deviation + 30V	
			0Hz, maximum voltage deviation + 40V	
Software LVP			ximum voltage deviation -5V > 0.5 second	
	L	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		
	t Protection (RCP)	Over 75W		
GENERAL				
Transient (only f	for 40~/0 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		
Oneration Key F		Trans-Cycle 0-9999, 0-Constant		
Operation Key F		Soft key, Numeric key, Rotary Knob		
Remote Input Si	-	Test, Reset, Interlock, Recall program memory 1 through 7		
Remote Output Signal		Pass, Fail , Test-in Process		
Key Lock Memory		Yes, Password Driven		
		50 memories, 9 steps/memory START / END / BOTH / OFF in the Program mode, Output Signal 5 V, BNC type		
Ext Trigger Alarm Volume S	etting			
	-	Range: 0-9; 0 = OFF, 1 is softest volume, 9 is loudest volume.		
Graphic Display PFC		240 x 64 dot resolution Monographic LCD/Contrast 9 Levels 1-9		
		PF ≥0.97 at Full load		
Efficiency		≥78% (at Full load)		
Auto Loop cycle Over Current Fold Back		0 = Continuous, OFF, 2~9999 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,		
Over Current Fold Dack		Con/On, 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		105.8 lbs (48 kg) 125.6 lbs (57 kg)		
Operation Environment		0-40%	0-40°/20-80% RH	

Specifications subject to change

Why We Use Counts APT publishes some specifications using "counts" which allows us to provide a better indication of the tester'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.