

## Associated Power Technologies 300XAC Linking Specifications

INPUT			310XAC	320XAC	340XAC	360XAC	
Phase			1<l			1<l or 3<l	
Voltage			100 - 240 V ± 10%		200 - 240 V ± 10%	1<l: 200 - 240 V 3<l3W: 200 - 240 V 3<l4W: 346 - 416 V ± 10%	
Frequency			47 - 63 Hz				
OUTPUT AC VOLTAGE							
Voltage			5 - 300 V				
Power			1 KVA	2 KVA	4 KVA	6 KVA	
Max Current	5 - 150 V	L	9.2 A @ 110 V	18.4 A @ 110 V	36.8 A @ 110 V	55.2 A @ 110 V	
Phase	5 - 300 V	H	4.6 A @ 220 V	9.2 A @ 220 V	18.4 A @ 220 V	27.6 A @ 220 V	
Inrush Current (peak)	5 - 150 V	L	36.8 A	73.6 A	147.2 A	220.8 A	
	5 - 300 V	H	18.4 A	36.8 A	73.6 A	110.4 A	
Frequency			40.0 - 1000 Hz				
Phase			1<l (Linking Available for 1<l3W or 3<l4W)				
THD			<0.5% (Resistive Load) at 40.0 - 70.0 Hz & output voltage 80 - 140 V & 160 - 280 V, <1.0% (Resistive Load) at 70.1 - 500 Hz & output voltage 80 - 140 V & 160 - 280 V, <1.5% (Resistive Load) at 501 - 1000 Hz & output voltage 100 - 140 V & 160 - 280 V				
Crest Factor			23				
Line Regulation			± 0.1 V				
Load Regulation			± (1% of output + 1 V) at Resistive Load, < 400 µsec response time (Hardware) / ± 0.5V, < 1 sec. (Software)				
DC Offset			± 5 mV				
OUTPUT DC VOLTAGE							
Voltage			5 - 420 V				
Power			1000 W	2000 W	4000 W	6000 W	
Max Current	5 - 210 V	L	4.8 A	9.6 A	19.2 A	28.8 A	
	5 - 420 V	H	2.4 A	4.8 A	9.6 A	14.4 A	
Ripple & Noise (rms)	5 - 210 V	L	< 500 mV		< 700 mV		
	5 - 420 V	H	< 800 mV		<1100 mV		
Ripple & Noise (p-p)			< 3.0 Vp-p		< 4.0 Vp-p		
MEASUREMENT AC							
Voltage	Range		0.0 - 400.0 V				
	Resolution		0.1 V				
	Accuracy		± (1% of reading + 2 counts) > 5V		± (1% of reading + 5 counts) > 5V		
Frequency	Range		0.0 - 1000 Hz				
	Resolution		0.1 Hz				
	Accuracy	L	± 0.1 Hz @ 0.0 - 500 Hz				
H		± 0.2 Hz @ 501 - 1000 Hz					
Current (rms)	Range	L	0.005 A - 1.200 A	0.005 A - 2.400 A	x	x	
		H	1.00 A - 13.00A	2.00 A - 26.00 A	0.05 A - 52.00 A	0.05 A - 78.00 A	
	Resolution	L	0.001 A			x	
		H	0.01 A				
	Accuracy	L	± (1% of reading + 5 counts) @ 40.0 - 500 Hz, ± (1% of reading + 5 counts) @ 501 - 1000 Hz & CF <1.5			x	
		H	± (1% of reading + 5 counts) @ 40 - 100 Hz, ± (1% of reading + 5 counts) @ 101 - 500 Hz > 0.1A, ± (1% of reading + 5 counts) @ 501 - 1000 Hz > 0.2A			x	
Current (peak)	Range		0.0 A - 38.0 A	0.0 A - 76.0 A	0.0 A - 152.0 A	0.0A - 228 A	
	Resolution		0.1 A				
	Accuracy		± (1% of reading + 5 counts) @ 40.0 - 70 Hz, ± (1.5% of reading + 10 counts) @ 70.1 - 500 Hz, ± (1.5% of reading + 10 counts) @ 501 - 1000 Hz & CF < 1.5				
Power (W)	Range	L	0.0 W - 120.0 W	0.0 W - 240.0 W	x	x	
		H	100 W - 1300 W	200 W - 2600 W	0 W - 5200 W	0 W - 7800 W	
	Resolution	L	0.1 W			x	x
		H	1 W				

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MEASUREMENT AC Continued			310XAC	320XAC	340XAC	360XAC
Power (W)	Accuracy	L	± (2% of reading + 15 counts) @ 40.0 - 500 Hz & PF 2 0.2, ± (2% of reading + 30 counts) @ 501 - 1000 Hz & PF 2 0.5		x	x
		H	± (2% of reading + 5 counts) @ 40.0 - 500 Hz & PF 2 0.2, ± (2% of reading + 15 counts) @ 501 - 1000 Hz & PF 2 0.5	± (2% of reading + 5 counts) @ 40.0 - 500 Hz & PF 2 0.2, ± (2% of reading + 15 counts) @ 501 - 1000 Hz & PF 2 0.5		
Power Apparent (VA)	Range	L	0.0 VA - 120.0 VA	0.0 VA - 240.0 VA	x	x
		H	100 VA - 1300 VA	200 VA - 2600 VA	0 VA - 5200 VA	0 VA - 7800 VA
	Resolution	L	0.1 VA		x	x
		H	1 VA			
Accuracy	V x A, Calculated Value					
Power Reactive (Q)	Range	L	0.0 VAR - 120.0 VAR	0.0 VAR - 240.0 VAR	x	x
		H	0 VAR - 1300 VAR	0 VAR - 2600 VAR	0 VAR - 5200 VAR	0 VAR - 7800 VAR
	Resolution	L	0.1 VAR		x	x
		H	1 VAR			
Accuracy	--(va) <sup>2</sup> - (w) <sup>2</sup> , calculated value					
Power Factor	Range	0 - 1.000				
	Resolution	0.001				
	Accuracy	W/VA, Calculated value and displayed to 3 significant digits				
Crest Factor	Range	0 - 10.00				
	Resolution	0.01				
	Accuracy	Ap/A, Calculated value and displayed to 2 significant digits				
MEASUREMENT DC						
Voltage	Range	0.0 - 420.0 V				
	Resolution	0.1 V				
	Accuracy	± (1% of reading + 2 counts)		± (1% of reading + 5 counts)		
Current	Range	L	0.010 A - 1.200A	0.010 A - 2.400 A	x	x
		H	1.00 A - 13.00 A	2.00 A - 26.00 A	0.05 A - 52.00 A	0.05 A - 78.00 A
	Resolution	L	0.001 A		x	x
		H	0.01 A			
Accuracy	L	± (1% of reading + 5 counts)		x	x	
	H	± (1% of reading + 5 counts)				
Power	Range	L	0.0 W - 120.0 W	0.0 W - 240.0 W	x	x
		H	100 W - 1300 W	200 W - 2600 W	0 W - 5200 W	0 W - 7800 W
	Resolution	L	0.1 W		x	x
		H	1 W			
Accuracy	L	± (2% of reading + 5 counts)		x	x	
	H	± (2% of reading + 5 counts)				
TEST SETTING PARAMETERS						
Memory	Range 1 - 50 Locations					
Memory Cycle	0 - 9999, 0 = Cont., 1 = OFF					
Step	AC	Range 1 - 9				
	DC	Range 1-5				
Step Cycle	0 - 9999, 0 = Cont., 1 = OFF					
Voltage Output	AC, DC					
Voltage	Range	AC	5.0 - 300.0 V High/Auto Mode			5.0 - 300.0
		DC	5.0 - 420.0 V High/Low Range			5.0 - 420.0
	Resolution	0.1 V				
Accuracy	± (1% of reading + 2 counts)			± (1% of reading + 5 counts)		

## Associated Power Technologies 300XAC Linking Specifications

TEST SETTING PARAMETERS Continued			310XAC	320XAC	340XAC	360XAC
Voltage Hi-Lmt	AC		5.0 V - 300 V		5.0 V - 300 V	
	DC		5.0 V - 420 V		5.0 V - 420 V	
Voltage Lo-Lmt	AC		5.0 V - 300 V		5.0 V - 300 V	
	DC		5.0 V - 420 V		5.0 V - 420 V	
Frequency Hi-Lmt	Range		40.0 - 1000 Hz			
Frequency Lo-Lmt	Range		40.0 - 1000 Hz			
Frequency	Resolution		0.1 Hz @ 40.0 - 99.9 Hz, 1 Hz @ 100 - 1000 Hz			
	Accuracy		±0.03%			
Current (rms) Hi-Lmt	Range	AC	0.01 A - 9.20 A, 0 = OFF	0.01 A - 18.40 A, 0 = OFF	0.10 A - 36.80 A, 0 = OFF	0.10 A - 55.20 A, 0 = OFF
		DC	0.01 A - 4.60 A	0.01 A - 9.60 A	0.10 A - 19.20 A	0.10 A - 28.80 A
Current (rms) Lo-Lmt	AC		0.01 A - 9.20 A	0.01 A - 18.40 A	0.10 A - 36.80 A	0.10 A - 55.20 A
	DC		0.01 A - 2.40 A	0.01 A - 4.80 A	0.10 A - 9.60 A	0.10 A - 14.40 A
Current (rms)	Resolution		0.01 Amp			
	Accuracy		± (2.0% of setting + 2 counts)			
Current (peak) Hi-Lmt			0.0 A - 38.0 A, 0 = OFF	0.0 A - 76.0 A, 0 = OFF	0.10 A - 152.0 A, 0 = OFF	0.0A - 228 A, 0 = OFF
Current (peak) Lo-Lmt			0.0 A - 38.0 A	0.0 A - 76.0 A	0.0 A - 152.0 A	0.0A - 228 A
Power Hi-Lmt			0.0 W - 1300 W, 0 = OFF	0.0 W - 2600 W, 0 = OFF	0 W - 5200 W, 0 = OFF	0 W - 7800 W, 0 = OFF
Power Lo-Lmt			0.0 W - 1300 W, 0 = OFF	0.0 W - 2600 W	0 W - 5200 W	0 W - 7800 W
Power Apparent Hi-Lmt			0.0 VA - 1300 VA, = OFF	0.0 VA - 2600 VA, 0 = OFF	0 VA - 5200 VA, 0 = OFF	0 VA - 7800 VA, 0 = OFF
Power Apparent Lo-Lmt			0.0 VA - 1300 VA, = OFF	0.0 VA - 2600 VA, 0 = OFF	0 VA - 5200 VA, 0 = OFF	0 VA - 7800 VA, 0 = OFF
Power Reactive Hi-Lmt			0.0 VAR - 1300 VAR, 0 = OFF	0.0 VAR - 2600 VAR, 0 = OFF	0 VAR - 5200 VAR, 0 = OFF	0 VAR - 7800 VAR, 0 = OFF
Power Reactive Lo-Lmt			0.0 VAR - 1300 VAR, 0 = OFF	0.0 VAR - 2600 VAR, 0 = OFF	0 VAR - 5200 VAR, 0 = OFF	0 VA - 7800 VA, 0 = OFF
Power Factor Hi-Lmt			0.000 - 1.000, 0 = OFF			
Power Factor Lo-Lmt			0.000 - 1.000			
Crest Factor Hi-Lmt			0.00 - 10.00, 0 = OFF			
Crest Factor Lo-Lmt			0.00 - 10.00			
Timer Unit			Second, Minute, Hour			
Ramp Up	Range	AC	0.00 - 999.9			
		DC	1.0 - 999.9, 0 = OFF			
	Resolution		0.1 (second, minute, hour)			
	Accuracy		± (0.1% + 0.05 sec.)			
Delay	Range		0.5sec - 999.9 sec (1.0 - 999.9 when linked), 0.1 min - 999.9 min, 0.1 hr - 999.9 hr			
	Resolution		0.1 (second, minute, hour)			
	Accuracy		± (0.1% + 0.1 sec)			
Dwell	Range		0.5 - 999.9 (1.0 - 999.9 when linked), 0 = Constant			
	Resolution		0.1 second, minute, hour			
	Accuracy		± (0.1% + 0.1 sec)			
Ramp Down	Range	AC	0.5 - 999.9			
		DC	1.0 - 999.9, 0 = OFF			
	Resolution		0.1 (second, minute, hour)			
	Accuracy		± (0.1% + 0.05 sec.)			
Phase Setting	Linking		A/B/C 3<l4W (120°), L1 - N & L2 - N 1<l3W (180°)			
Prompt			Alphanumeric			
Start Angle			0° - 359°			
End Angle			0° - 359°			
Start & End Angle	Resolution		1°			
	Accuracy		±1% (45 Hz - 65 Hz)			

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TEST SETTING PARAMETERS Continued			310XAC	320XAC	340XAC	360XAC
Connect			ON, OFF			
Transient			ON, OFF (Only 40 Hz - 70 Hz is available)			
SD-Volt			0.0 V - 300.0 V			
SD-Site			0.0 - 25.0 msec			
SD-Time			0.5 - 999.9 msec (Trans-Cycle =ON) & 1 - 99 msec (Trans-Cycle = OFF)			
Trans-Cycle			ON, OFF (Each cycle one surge/drop is created on waveform) 0-9999, 0=OFF			
SYSTEM PARAMETERS						
Auto Run			Program, Manual			
Output Mode	Manual		AC, DC			
Single Step	Program		ON, OFF			
Alarm			0 - 9, 0 = OFF, 9 = High			
Contrast			1 - 9, 9 = High			
Power Up			ON, OFF, LAST			
Loop Cycle	Program		0 - 9999, 0 = Cont., 1 = OFF			
Results			LAST, P/F, ALL			
OC Fold			ON, OFF			
Transient	Manual		ON, OFF			
Lock			ON, OFF			
Mem Lock			ON, OFF			
Volt Sense			INT, EXT			
Synch Signal			START, Freq, EVENT, OFF, 5 V DC Signal			
Linking			AUTO DETECT (Parallel, 1<I3W, 3<I4W)			
Re-Config			YES (When Units Linked)			
Address			IP, GPIB, RS-485			
GENERAL						
Enhanced Over Load Capacity			Over current 110% can hold for 1000 ms without protection			
Operation Key Feature			Soft key, Numeric Key, Rotary Knob			
Remote Output Signal			Output (Pass, Fail, Test in Process)			
Calibration			Front Panel			
Key Lockout			Soft Key & Password Protected			
Synch Output Signal			5 V DC			
Graphic Display			260 x 64 Monographic, LCD			
Interface			USB/RS-232			
Barcoding			Barcode Capable			
Protection Circuit			Over Current, Over Temperature, Over Power, Over Voltage			
Fan			Temperature Controlled			
Rear Output			Terminal Block			
Rack Mount Handles			Standard	Standard & Caster Wheels		
PFC			97% at Full Load			
Efficiency			75% at Full Load	80% at Full Load		
CE Mark			Yes			
Parallel/Poly-Phase Output			Multiple Source Linking: L1 - N & L2 - N 1<I3W (180°), A/B/C 3<I4W (120°)			
Operation Environment			0 - 40°C / 20 - 80% RH			
Dimensions			430 (W) x 133.5 (H) x 530 (D) mm	430 (W) x 267 (H) x 500 (D) mm	430 (W) x 400.5 (H) x 500 (D) mm	
Net Weight			21 Kg	22 Kg	50 kg	53 Kg
OPTIONS						
Grounded Neutral	Option	2	All Models			
GPIB Interface	Option	3	All Models			
7 Memory Remote	Option	4	Input (Test, Reset, Recall Memory 1 - 7)			
Ethernet/RS-232/Barcode	Option	5	All Models			
Linking Card	Option	8	All Models			

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LINKING PARALLEL OUTPUT 1C12W			310XAC	320XAC	340XAC	360XAC
Linked Units			2 - 3 Units, 1<l2W (L1 - N)			
Voltage	Phase		0 - 300 V		5 - 300 V	
Power	# Units	2	1.8 KVA	3.6 KVA	7.2 KVA	10.8 KVA
		3	2.7 KVA	5.4 KVA	10.8 KVA	16.2 KVA
Max Current	0 - 150 V	L(2)	14.72 A @ 20 V - 110 V	29.44 A @ 20 V - 110 V	58.88 A @ 20 V - 110 V	88.32 A @ 20 V - 110 V
		L(3)	22.08 A @ 20 V - 110 V	44.16 A @ 20 V - 110 V	88.32 A @ 20 V - 110 V	132.48 A @ 20 V - 110 V
	0 - 300 V	H(2)	7.36 A @ 20 V - 220 V	14.72 A @ 20 V - 220 V	29.44 A @ 20 V - 220 V	44.16 A @ 20 V - 220 V
		H(3)	11.04 A @ 20 V - 220 V	22.08 A @ 20 V - 220 V	44.16 A @ 20 V - 220 V	66.24 A @ 20 V - 220 V
LINKING POLY-PHASE OUTPUT 1C13W			310XAC	320XAC	340XAC	360XAC
Linked Units			2 Units @ 180°, 1<l3W (L1-L2 - N)			
Voltage	Phase		0 - 600 V		10 - 600 V	
	Line		0 - 300 V		5 - 300 V	
Power	Max		2 KVA	4 KVA	8 KVA	12 KVA
Max Current	0 - 300 V	L (1)	9.2 A @ 110 V	18.4 A @ 110 V	36.8 A @ 110 V	55.2 A @ 110 V
		H (1)	4.6 A @ 220 V	9.2 A @ 220 V	18.4 A @ 220 V	27.6 A @ 220 V
Max Current	0 - 300 V	L (2)	9.2 A @ 220 V	18.4 A @ 220 V	36.8 A @ 220 V	55.2 A @ 220 V
		H (2)	4.6 A @ 440 V	9.2 A @ 440 V	18.4 A @ 440 V	27.6 A @ 440 V
LINKING POLY-PHASE OUTPUT 3C14W			310XAC	320XAC	340XAC	360XAC
Linked Units			3 Units @ 120°, 3<l4W (L1-L2-L3 - N)			
Voltage	Phase		0 - 300 V		5 - 300 V	
	Line		0 - 520 V		5 - 520 V	
Power	Max		3 KVA	6 KVA	12 KVA	18 KVA
Max Current	0 - 150 V	L (1)	9.2 A @ 110 V	18.4 A @ 110 V	36.8 A @ 110 V	55.2 A @ 110 V
		H (1)	4.6 A @ 220 V	9.2 A @ 220 V	18.4 A @ 220 V	27.6 A @ 220 V
Max Current	0 - 150 V	L (3)	9.2 A @ 190.5 V	18.4 A @ 190.5 V	36.8 A @ 190.5 V	55.2 A @ 190.5 V
		H (3)	4.6 A @ 381 V	9.2 A @ 381 V	18.4 A @ 381 V	27.6 A @ 381 V
Max Current	0 - 260 V	L (3)	5.31 A @ 190.5 V	10.62 A @ 190.5 V	21.24 A @ 190.5 V	31.87 A @ 190.5 V
		H (3)	2.65 A @ 381 V	5.31 A @ 381 V	10.62 A @ 381 V	15.93 A @ 381 V
LINKING PARALLEL DC OUTPUT 1C12W			310XAC	320XAC	340XAC	360XAC
Linked Units			2 - 3 Units, 1<l2W (L1 - N)			
Voltage	Line		0 - 420 V		5 - 420 V	
Power	# Units	2	1.8 KVA	3.6 KVA	7.2 KVA	10.8 KVA
		3	2.7 KVA	5.4 KVA	10.8 KVA	16.2 KVA
Max Current	0 - 210 V	L(2)	7.68 A @ 50 V - 210 V	15.36 A @ 50 V - 210 V	30.72 A @ 50 V - 210 V	46.08 A @ 50 V - 210 V
		L(3)	11.52 A @ 50 V - 210 V	23.04 A @ 50 V - 210 V	46.08 A @ 50 V - 210 V	69.12 A @ 50 V - 210 V
	0 - 420 V	H(2)	3.84 A @ 50 V - 420 V	7.68 A @ 50 V - 420 V	15.36 A @ 50 V - 420 V	23.04 A @ 50 V - 420 V
		H(3)	5.76 A @ 50 V - 420 V	11.52 A @ 50 V - 420 V	23.04 A @ 50 V - 420 V	34.56 A @ 50 V - 420 V

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MEASUREMENT (Total)* LINKING PARALLEL 1C12W		310XAC	320XAC	340XAC	360XAC	
Voltage	Range	0.0 - 400.0 V				
	Resolution	0.1 V				
	Accuracy	± (1% of reading + 2 counts) > 5 V		± (1% of reading + 5 counts) > 5 V		
Frequency	Range	0.0 - 1000.0 Hz				
	Resolution	0.1 Hz				
	Accuracy	L	± 0.1 Hz @ 0.0 - 500 Hz			
		H	± 0.2 Hz @ 501 - 1000 Hz			
Current (rms)	Range	2	0.00 A - 26.00 A	0.00 A - 52.00 A	0.00 A - 104.0 A	0.00 A - 156.0 A
		3	0.00 A - 39.00 A	0.00 A - 78.00 A	0.00 A - 156.0 A	0.00 A - 234.0 A
	Resolution	0.01 A		0.01 A at 99.99 A, 0.1 A at 100.0 A		
	Accuracy	± (1.5% of reading +15 counts) x # of Linked Units @ 40.0 - 70.0 Hz & Current > 1.0 A, or @ 70.01 - 500 Hz & Current > 5 A, or @ 501 - 1000 Hz & Current > 5 A & CF < 1.5		± (1.5% of reading +15 counts) x # of Linked Units @ 40.0 - 70.0 Hz & Current > 2.0 A, or @ 70.01 - 500 Hz & Current > 10 A & @ 501 - 1000 Hz & Current > 10 A & CF < 1.5		± (1.5% of reading +15 counts) x # of Linked Units @ 40.0 - 70.0 Hz & Current > 3.0 A, or @ 70.01 - 500 Hz & Current > 15 A, or @ 501 - 1000 Hz & Current > 15 A & CF < 1.5
	Accuracy					
Power (W)	Range	2	0 W - 2600 W	0 W - 25200 W	0 W -10400 W	0 W - 15600 W
		3	0 W - 3900 W	0 W - 7800 W	0 W - 15600 W	0 W - 23400 W
	Resolution	1 W				
	Accuracy	± (2% of reading + 10 counts) x (# of Linked Units) at PF 2 0.2, 40 - 500 Hz, and Current > 5.0 A ± (2% of reading + 10 counts) x (# of Linked Units) at PF 2 0.3, 501 - 1000 Hz, and Current > 5.0 A				
Power Apparent (VA)	Range	2	0 W - 2600 VA	0 W - 5200 VA	0 W -10400 VA	0 W - 15600 VA
		3	0 W - 3900 VA	0 W - 7800 VA	0 W - 15600 VA	0 W - 23400 VA
	Resolution	1 VA				
	Accuracy	V x A, Calculated Value				
Power Reactive (Q)	Range	2	0 W - 2600 VAR	0 W - 25200 VAR	0 W -10400 VAR	0 W - 15600 VAR
		3	0 W - 3900 VAR	0 W - 7800 VAR	0 W - 15600 VAR	0 W - 23400 VAR
	Resolution	1 VAR				
	Accuracy	--(VA) <sup>2</sup> - (W) <sup>2</sup> , Calculated Value				
Power Factor	Range	0 - 1.000				
	Resolution	0.001				
	Accuracy	W / VA, Calculated and displayed to three significant digits				

**Associated Power Technologies**  
300XAC Linking Specifications

MEASUREMENT (Total)* LINKING POLY-PHASE 1C13W			310XAC	320XAC	340XAC	360XAC
Voltage	Range	2	L1 Voltage + L2 Voltage			
	Resolution		0.1 V			
	Accuracy		L1 Voltage + L2 Voltage, Calculated and displayed to one significant digit			
Frequency	Range		0.0 - 1000.0 Hz			
	Resolution		0.1 Hz			
	Accuracy	L	± 0.1 Hz @ 0.0 - 500 Hz			
		H	± 0.2 Hz @ 501 - 1000 Hz			
Current (rms)	Range	2	(L1 Current + L2 Current)/2			
	Resolution	L	0.001 A	x	x	
		H	0.01 A			
	Accuracy	L	± (1% of reading + 5 counts) at 40 - 70 Hz, ± (1% of reading + 5 counts) at 70.1 - 500 Hz and output current (r.m.s) > 0.200A, ± (1% of reading + 5 counts) at 70.1 - 500 Hz and output current (r.m.s) > 0.300A	x	x	
		H	± (1% of reading + 5 counts) at 40 - 500 Hz, ± (1% of reading + 5 counts) at 501 - 1000 Hz & CF < 1.5,	± (1% of reading + 5 counts) at 40 - 70 Hz, ± (1% of reading + 5 counts) at 70.1 - 500 Hz and output current (r.m.s) > 0.20A, ± (1% of reading + 5 counts) at 70.1 - 500 Hz and output current (r.m.s) > 0.30A & CF < 1.5		
Power (W)	Range	2	L1 Power + L2 Power			
	Resolution	L	0.1 W	x	x	
		H	1 W			
	Accuracy	2	L1 Power + L2 Power, Calculated Value			
Power Apparent (VA)	Range	2	L1 VA + L2 VA			
	Resolution	L	0.1 VA	x	x	
		H	1 VA			
Accuracy	2	L1 VA + L2 VA, Calculated Value				
Power Reactive (Q)	Range	2	L1 VAR + L2 VAR			
	Resolution		1 VAR	x	x	
	Accuracy	2	L1 VAR + L2 VAR, Calculated Value			
Power Factor	Range		0 - 1.000			
	Resolution		0.001			
	Accuracy		(L1 P + L2 P) / (L1 VA + L2 VA), Calculated and displayed to three significant digits			

### Associated Power Technologies 300XAC Linking Specifications

MEASUREMENT (Total)* LINKING POLY-PHASE 3C14W		310XAC	320XAC	340XAC	360XAC	
Voltage	Range	(A+B+C)/3				
	Resolution	0.1 V				
	Accuracy	(A+B+C)/3 , Calculated and displayed to one significant digit				
Frequency	Range	0.0 - 1000.0 Hz				
	Resolution	0.1 Hz				
	Accuracy	L	± 0.1 Hz @ 0.0 - 500 Hz			
		H	± 0.2 Hz @ 501 - 1000 Hz			
Current (rms)	Range	(A+B+C)/3				
	Resolution	L	0.001 A	x	x	
		H	0.01 A			
	Accuracy	L	± (1% of reading + 5 counts) at 40 - 70 Hz, ± (1% of reading + 5 counts) at 70.1 - 500 Hz and output current (r.m.s) > 0.200A, ± (1% of reading + 5 counts) at 70.1 - 500 Hz and output current (r.m.s) > 0.300A		x	x
		H	± (1% of reading + 5 counts) at 40 - 500 Hz, ± (1% of reading + 5 counts) at 501 - 1000 Hz & CF < 1.5,		± (1% of reading + 5 counts) at 40 - 70 Hz, ± (1% of reading + 5 counts) at 70.1 - 500 Hz and output current (r.m.s) > 0.20A, ± (1% of reading + 5 counts) at 70.1 - 500 Hz and output current (r.m.s) > 0.30A & CF < 1.5	
Power (W)	Range	A Power + B Power + C Power				
	Resolution	L	0.1 W	x	x	
		H	1 W			
	Accuracy	Calculated Value				
Power Apparent (VA)	Range	A VA + B VA + C VA				
	Resolution	L	0.1 VA	x	x	
		H	1 VA			
	Accuracy	Calculated Value				
Power Reactive (Q)	Range	A VAR + B VAR + C VAR				
	Resolution	1 VAR				
	Accuracy	Calculated Value				
Power Factor	Range	0 - 1.000				
	Resolution	0.001				
	Accuracy	Sum P / Sum VA, Calculated and displayed to three significant digits				
MEASUREMENT (Total)* LINKING PARALLEL DC		310XAC	320XAC	340XAC	360XAC	
Voltage	Range	0.0 - 420.0 V				
	Resolution	0.1 V				
	Accuracy	± (1% of reading + 2 counts) > 5 V		± (1% of reading + 5 counts) > 5 V		
Current	Range	2	0.05 A - 26.00 A	0.05 A - 52.00 A	0.05 A - 104.00 A	0.05 A - 156.00 A
		3	0.05 A - 39.00 A	0.05 A - 78.00 A	0.05 A - 156.00 A	0.05 A - 234.00 A
	Resolution	0.01 A				
	Accuracy	± (1% of reading + 5 counts) x # of Linked Units				
Power (W)	Range	2	0 W - 2600 W	0 W - 25200 W	0 W - 10400 W	0 W - 15600 W
		3	0 W - 3900 W	0 W - 7800 W	0 W - 15600 W	0 W - 23400 W
	Resolution	1 W				
	Accuracy	± (2% of reading + 5 counts) x # of Linked Units				

**Key**

L = Low Limit Range  
H = High Limit Range  
L (2) = Low Limit Range 2 Units Linked  
L (3) = Low Limit Range 3 Units Linked  
H (2) = High Limit Range 2 Units Linked  
H (3) = High Limit Range 3 Units Linked  
2 = 2 Units Linked  
3 = 3 Units Linked