

Solid-State Amplifiers

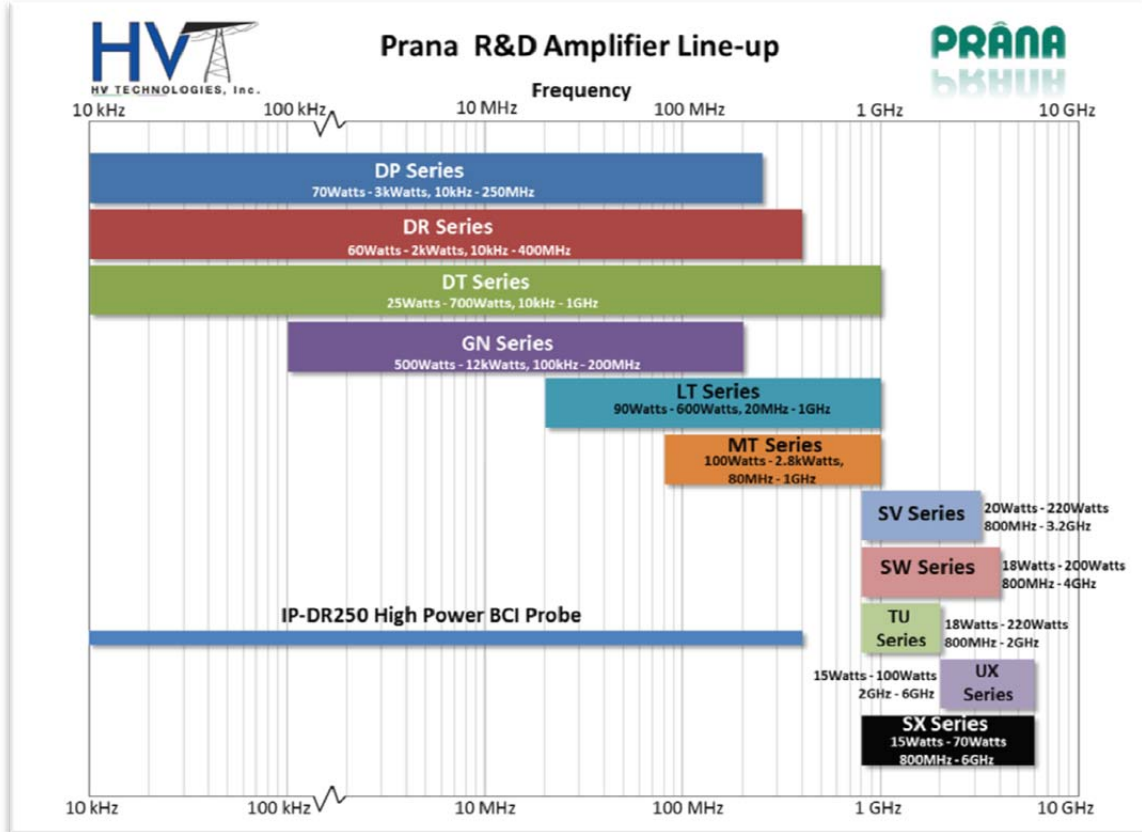
HV TECHNOLOGIES, Inc. now providing Sales and Service for:



HIGH POWER SOLID-STATE AMPLIFIERS

Covering North America Including: United States, Canada, and Mexico

- Long history of providing quality, support, and value
- **Class A** robust design, will work into any mismatch without damage
- Including many applications: EMC, Research, Calibration, RF Transmitters...
- Backed and fully supported by HV TECHNOLOGIES in all of North America
- Fills EMC Industry needs with more power in the bands where you need it.
- 3 Year Warranty



BREAKING NEWS

HV TECHNOLOGIES Inc. is bringing Prana's proven technology to the North American market!

Our partnership brings both HV TECHNOLOGIES and Prana together for a customer focused: customer service, sales and support. Prana was founded in 1975 and is a very highly reliable respected manufacturer from Europe who has been meeting the needs for RF test equipment for many applications including EMC testing. Over time they have gained the knowledge to maintain customer relationships and exceed expectations. Offering a **3 year warranty** on all products is just the beginning and we will be happy to prove to you why our products and systems will not only meet your needs but exceed them.

Absolutely the most rugged robust designed amplifiers

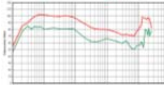
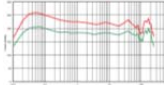
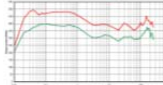
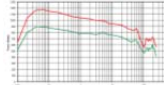

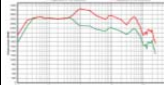
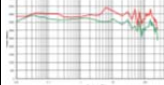
- ❖ Class A
- ❖ Solid-State
- ❖ More power for the size
- ❖ Will work into Infinite VSWR without damage
- ❖ More available Linear Power (1dB comp) where it is needed
- ❖ Unmatched Broad Band coverage in High Power **10 kHz – 400 MHz, 10 kHz – 1 GHz**
- ❖ Fully supported from HV TECHNOLOGIES in Manassas, VA USA
- ❖ Easy and quick diagnosis of problems for quick service = less down time
- ❖ Configurable for your needs, connector location (front or back)
- ❖ Unique connector choices: SC, C, Type N, 7-16 DIN, EIA let us know
- ❖ Options for integrated directional couplers
- ❖ Options for computer control and monitoring
- ❖ Don't pay for features you don't need

Expertise to Solve Your Needs

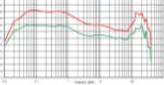
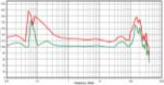
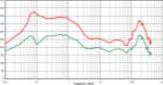
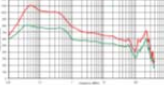
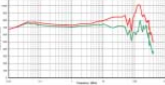
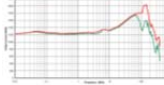
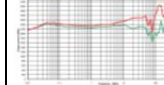
HV TECHNOLOGIES not only offers the best in amplifier technologies, it also has the ability to help you size and choose the correct amplifier. We have years of experience and know-how to pull from. It can be very difficult to predict what will happen in every individual setup. There are so many contributing factors that can affect the field such as: mismatch (VSWR), cable and system loss, antenna performance, quality of test setup, test standards, field uniformity, test distance and near field effects. Some of these factors are easy to calculate and predict while others take a little expertise to minimize and understand the effects on required power. With HV TECHNOLOGIES you can be confident with our solutions.

Please contact us and let us build a system for your needs. We can work with integration of your existing equipment or suggest a full system for you.




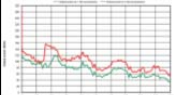
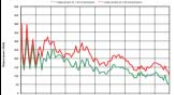
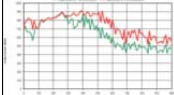
Model	DP 70	DP 140	DP300	DP 600	DP 1000	DP2200	DP 3500
Frequency	10 kHz - 250 MHz	10 kHz - 250 MHz	10 kHz - 250 MHz	10 kHz - 250 MHz	10 kHz - 250 MHz	10 kHz - 250 MHz	10 kHz - 250 MHz
Output Power	70 W Nominal	140 W Nominal	300 W Nominal	600 W Nominal	1000 W Nominal	2200 W Nominal	3500 W Nominal
Compression							
3dB Min	57 Watts	140 Watts	250 Watts	500 Watts	900 Watts	1500 Watts	3000 Watts
1dB min	50 Watts	120 Watts	200 Watts	400 Watts	700 Watts	1100 Watts	2500 Watts
Harmonics @1dB	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc
Amplifier Class	Class A	Class A	Class A				
Gain	49 dB	49 dB	53 dB	57 dB	64 dB	63 dB	67 dB
Mismatch Tolerance	Infinite VSWR without damage!		Infinite VSWR without damage!		Infinite VSWR without damage!		Infinite VSWR without damage!
Power Limiting	none needed	none needed	none needed	none needed	Self-limitation for reflected power > 800W	Self-limitation for reflected power > 1000W	Self-limitation for reflected power > 2000W
Input Power	10dBm Max	10dBm Max	10dBm Max	10dBm Max	10dBm Max	10dBm Max	10dBm Max
input/output cont.	N(f)/N(f) front	N(f)/N(f) front	N(f)/N(f) front or rear	N(f)/N(f) front or rear	N(f)/7-16(f) front or rear	N(f)/7-16(f) front or rear	N(f)/7-16(f) front or rear
Size L x W x H	25.2 x 17.7 x 3.5 in.	25.2 x 17.7 x 7 in.	25.2 x 17.7 x 7 in.	25.2 x 17.7 x 14.2 in	23.6 x 33.1 x 41.3 in	23.6 x 33.1 x 66.2 in	31.5 x 33.1 x 83.4 in
19" rack units	2U	4U	4U	8U	18U Rack	32U Rack	42U Rack
AC Power Volts	90-250 VAC 1Ø	90-250 VAC 1Ø	90-250 VAC 1Ø	200-250 VAC 1Ø	3Ø (star or delta)	3Ø (star or delta)	3Ø (star or delta)
AC Power Current	3.5A @ 110VAC	7.5A @ 110VAC	13.2 A @ 110 VAC	10.4 A at 230VAC	5.4 kVA	10.35 kVA	21 kVA
Weight	12 kg / 26.5 lb	33 kg / 72.6 lb	35 kg / 77 lb	51 kg / 112 lb	230 kg / 506 lb	390 kg / 858 lb	650 kg / 1433 lb
Versions Available	S, SC, D, DC	S, SC, D, DC	S, SC, D, DC	D, DC	DC	DC	DC
Typical Output Power (see data sheet or request production data)							



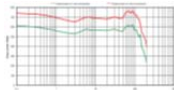
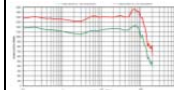
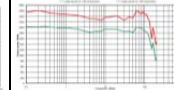
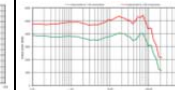
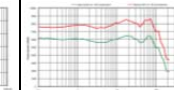
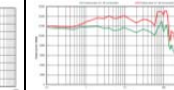
Model	DR 60	DR 110	DR 220	DR 400	DR 600	DR 1200	DR 2000
Frequency	10 kHz - 400 MHz	10 kHz - 400 MHz	10 kHz - 400 MHz	10 kHz - 400 MHz	10 kHz - 400 MHz	10 kHz - 400 MHz	10 kHz - 400 MHz
Output Power	60 W Nominal	110 W Nominal	220 W Nominal	400 W Nominal	600 W Nominal	1200 W Nominal	2000 W Nominal
Compression							
3dB Min	50 W min. up to 250 MHz 40 W min. up to 400 MHz	110 W min. up to 250 MHz 70 W min. up to 400 MHz	190 W min.	350 W min. up to 250 MHz 200 W min. up to 400 MHz	600 W min. up to 250 MHz 400 W min. up to 400 MHz	1200 W min. up to 250 MHz 700 W min. up to 400 MHz	2000 W min. up to 250 MHz 1500 W min. up to 400 MHz
1dB min	40 W min. up to 250 MHz 25 W min. up to 400 MHz	95 W min. up to 250 MHz 45 W min. up to 400 MHz	140 W min.	300 W min. up to 250 MHz 150 W min. up to 400 MHz	500 W min. up to 250 MHz 300 W min. up to 400 MHz	1000 W min. up to 250 MHz 400 W min. up to 400 MHz	1500 W min. up to 250 MHz 1000 W min. up to 400 MHz
Harmonics @ 1dB	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc
Amplifier Class	Class A	Class A	Class A	Class A	Class A	Class A	Class A
Gain	48 dB	50 dB	53 dB	54 dB	56 dB	57 dB	60 dB
Mismatch Tolerance	Infinite VSWR without damage!		Infinite VSWR without damage!		Infinite VSWR without damage!		Infinite VSWR without damage!
power limiting	none	none	none	none	Self-limitation for reflected power > 500W	Self-limitation for reflected power > 1000W	Self-limitation for reflected power > 1000W
Input power	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.
input/output cont.	N(f)/N(f) front or rear	N(f)/N(f) front or rear	N(f)/N(f) front or rear	N(f)/N(f) front or rear	N(f)/7-16(f) front or rear	N(f)/7-16(f) front or rear	N(f)/7-16(f) front or rear
Size L x W x H	25.2 x 17.7 x 3.5 in	25.2 x 17.7 x 7 in	25.2 x 17.7 x 7 in	25.2 x 17.7 x 14.2 in	23.6 x 33.1 x 41.3 in	23.6 x 33.1 x 66.2 in	31.5 x 33.1 x 83.4 in
19" rack units	2U	4U	4U	8U	18U Rack on wheels	32U Rack on wheels	42U Rack on wheels
AC Power Volts	90-250 VAC, 1Ø	90-250 VAC, 1Ø	90-250 VAC, 1Ø	200-250 VAC 1Ø	3Ø (star or delta)	3Ø (star or delta)	3Ø (star or delta)
AC Power Current	3.5 A at 110 VAC	7.5 A at 110 VAC	11.4 A at 110 VAC	10.4 A at 230 VAC	5.4 kVA	10.35 kVA	10.35 kVA
Weight	12 kg / 26.5 lb	33 kg / 72.6 lb	28 kg / 62 lb	51 kg / 112 lb	230 kg / 506 lb	390 kg / 858 lb	650 kg / 1433 lb
Versions Available	S, SC, D, DC	S, SC, D, DC	S, SC, D, DC	D, DC	D, DC	D, DC	D, DC
Typical Output Power (see data sheet or request production data)							

S= Standard, SC=Internal Duel Directional Coupler (DDC), D=Digital Control, DC=Digital Control with DDC



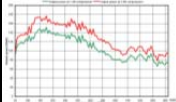
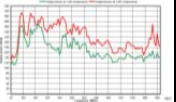
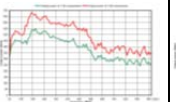
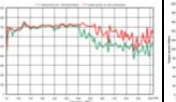
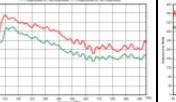
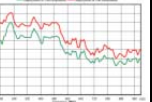
Model	DT 25	DT 70	DT 150	DT 600
Frequency	10 kHz - 1000 MHz	10 kHz - 1000 MHz	10 kHz - 1000 MHz	10 kHz - 1000 MHz
Output Power	25 W Nominal	70 W Nominal	150 W Nominal	600 W Nominal
Compression				
3dB Min	25 W min. up to 450 MHz 12 W min. up to 1000 MHz	60 W min. up to 500 MHz 40 W min. up to 1000 MHz	140 W min. up to 450 MHz 60 W min. up to 1000 MHz	600 W min. up to 450 MHz 500 W min. up to 1000 MHz
1dB min	20 W min. up to 450 MHz 10 W min. up to 1000 MHz	50 W min. up to 500 MHz 30 W min. up to 1000 MHz	120 W min. up to 450 MHz 50 W min. up to 1000 MHz	500 W min. up to 450 MHz 400 W min. up to 1000 MHz
Harmonics @ 1dB	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc
Amplifier Class	Class A	Class A	Class A	Class A
Gain	42 dB	48 dB	52 dB	56 dB
Mismatch Tolerance	Infinite VSWR without damage!		Infinite VSWR without damage!	
power limiting	none	none	none	Self-limitation for reflected power > 500W
Input power	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.
input/output cont.	N(f)/N(f) front or rear	N(f)/N(f) front or rear	N(f)/N(f) front or rear	N(f)/N(f) front or rear
Size L x W x H	25.2 x 17.7 x 3.5 in	25.2 x 17.7 x 7 in	25.2 x 17.7 x 12.3 in	23.6 x 33.1 x 59.1 in
19" rack units	2U	4U	7U	28U Rack on wheels
AC Power Volts	90-250 VAC, 1Ø	90-250 VAC, 1Ø	200-250 VAC, 1Ø	3Ø (star or delta)
AC Power Current	2.5 A at 110 VAC	8.1 A at 110 VAC	6.7 A at 230 VAC	5 kVA
Weight	12 kg / 26.5 lb.	33 kg / 72.6 lb.	50 kg / 110 lb.	360 kg / 794 lb.
Versions Available	S, SC, D, DC	S, SC, D, DC	D, DC	DC
Typical Output Power (see data sheet or request production data)				



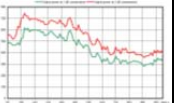
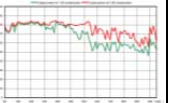

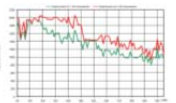
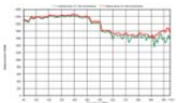
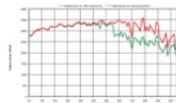
Model	GN 500	GN 1000	GN 2000	GN 3500	GN 7000	GN 12000
Frequency	100 kHz - 200 MHz	100 kHz - 200 MHz	100 kHz - 200 MHz	100 kHz - 200 MHz	100 kHz - 200 MHz	100 kHz - 200 MHz
Output Power	500 W Nominal	1000 W Nominal	2000 W Nominal	3500 W Nominal	7000 W Nominal	12000 W Nominal
Compression						
3dB Min	550 W min. up to 100 MHz 280 W min. up to 200 MHz	1100 W min. up to 100 MHz 600 W min. up to 200 MHz	2200 W min. up to 100 MHz 1200 W min. up to 200 MHz	4000 W min. up to 100 MHz 2000 W min. up to 200 MHz	6500 W min. up to 100 MHz 3500 W min. up to 200 MHz	11000 W min. up to 100 MHz 7000 W min. up to 200 MHz
1dB min	450 W min. up to 100 MHz 180 W min. up to 200 MHz	900 W min. up to 100 MHz 380 W min. up to 200 MHz	1800 W min. up to 100 MHz 800 W min. up to 200 MHz	3000 W min. up to 100 MHz 1200 W min. up to 200 MHz	5000 W min. up to 100 MHz 2000 W min. up to 200 MHz	10000 W min. up to 100 MHz 5000 W min. up to 200 MHz
Harmonics @ 1dB	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc
Amplifier Class	Class A	Class A	Class A	Class A	Class A	Class A
Gain	60 dB	63 dB	65 dB	65 dB	65 dB	65 dB
Mismatch Tolerance	Infinite VSWR without damage!		Infinite VSWR without damage!	Infinite VSWR without damage!	Infinite VSWR without damage!	Infinite VSWR without damage!
Power Limiting	none	none	Self-limitation for reflected power > 1500W	Self-limitation for reflected power > 2000W	Self-limitation for reflected power > 4000W	Self-limitation for reflected power > 6000W
Input Power	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.
Input/Output cont.	N(f)/N(f) front or rear	N(f)/N(f) front or rear	N(f)/7-16(f) front or rear	N(f)/7-16(f) front or rear	N(f)/7-16(f) front or rear	N(f)/EIA 1-5/8" rear
Size L x W x H	25.2 x 33.1 x 12.3 in	24.2 x 33.1 x 14.2 in	23.6 x 33.1 x 41.3 in	23.6 x 33.1 x 73.2 in	2x(23.6 x 33.1 x 73.2in)	86.6 x 33.1 x 76.8 in
19" rack units	7U	8U	18U rack on wheels	36U rack on wheels	2 x 36U racks	3 x 38U racks
AC Power Volts	200-250 VAC, 1Ø	200-250 VAC, 1Ø	3Ø (star or delta)	3Ø (star or delta)	3Ø (star or delta)	3Ø (star or delta)
AC Power Current	2 kVA	3.5 kVA	7.2 kVA	7.2 kVA	29 kVA	55 kVA
Weight	44 kg / 97 lb	73 kg / 161 lb	230 kg / 506 lb	390 kg / 858 lb	2x 390 kg / 2x 858 lb	3x 450 kg / 3x 992 lb
Versions Available	D, DC	D, DC	DC	DC	DC	DC
Typical Output Power (see data sheet or request production data)						

S= Standard, SC=Internal Duel Directional Coupler (DDC), D=Digital Control, DC=Digital Control with DDC



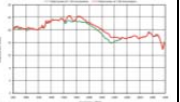
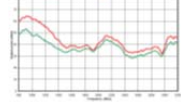
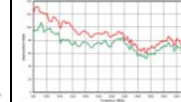
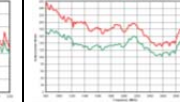
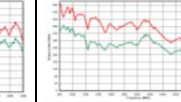
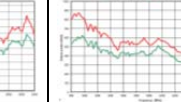
Model	LT 90	LT 160	LT 320	LT 600	MT 100	MT 200
Frequency	20 MHz - 1000 MHz	20 MHz - 1000 MHz	20 MHz - 1000 MHz	20 MHz - 1000 MHz	80 MHz - 1000 MHz	80 MHz - 1000 MHz
Output Power	90 W Nominal	160 W Nominal	320 W Nominal	600 W Nominal	100 W Nominal	200 W Nominal
Compression						
3dB Min	65 W min. up to 80 MHz 90 W min. up to 500 MHz 60 W min. up to 1000 MHz	95 W min. up to 80 MHz 200 W min. up to 500 MHz 120 W min. up to 1000 MHz	320 W min. up to 500 MHz 250 W min. up to 1000 MHz	400 W min. up to 80 MHz 650 W min. up to 500 MHz 400 W min. up to 1000 MHz	90 W min. up to 500 MHz 70 W min. up to 1000 MHz	160 W min. up to 600 MHz 130 W min. up to 1000 MHz
1dB min	60 W min. up to 80 MHz 75 W min. up to 500 MHz 45 W min. up to 1000 MHz	80 W min. up to 80 MHz 170 W min. up to 500 MHz 100 W min. up to 1000 MHz	280 W min. up to 500 MHz 200 W min. up to 1000 MHz	350 W min. up to 80 MHz 600 W min. up to 500 MHz 350 W min. up to 1000 MHz	80 W min. up to 500 MHz 60 W min. up to 1000 MHz	140 W min. up to 600 MHz 110 W min. up to 1000 MHz
Harmonics @ 1dB	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc
Amplifier Class	Class A	Class A	Class A	Class A	Class A	Class A
Gain	48 dB	51 dB	54 dB	56 dB	48 dB	51 dB
Mismatch Tolerance	Infinite VSWR without damage!		Infinite VSWR without damage!		Infinite VSWR without damage!	
Power Limiting	none	none	none	Self-limitation for reflected power > 350W	none	none
Input Power	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.
Input/Output cont.	N(f)/N(f) front or rear	N(f)/N(f) front or rear	N(f)/N(f) front or rear	N(f)/7-16(f) front or rear	N(f)/N(f) front or rear	N(f)/N(f) front or rear
Size L x W x H	25.2 x 17.7 x 7 in	25.2 x 17.7 x 7 in	25.2 x 17.7 x 12.3 in	23.6 x 33.1 x 51.9 in	25.2 x 17.7 x 7 in	25.2 x 17.7 x 7 in
19" rack units	4U	4U	7U	24U Rack on Wheels	4U	4U
AC Power Volts	90-250 VAC, 1Ø	90-250 VAC, 1Ø	90-250 VAC, 1Ø	3Ø (star or delta)	90-250 VAC, 1Ø	90-250 VAC, 1Ø
AC Power Current	6.4 A at 110 VAC	10 A at 110 VAC	20 A at 110 VAC	4.6 kVA	6.4 A at 110 VAC	10.9 A at 110 VAC
Weight	32 kg / 70 lb	34 kg / 75 lb	47 kg / 103 lb	205 kg / 451 lb	32 kg / 70 lb	34 kg / 75 lb
Versions Available	S, SC, D, DC	S, SC, D, DC	D, DC	DC	S, SC, D, DC	S, SC, D, DC
Typical Output Power (see data sheet or request production data)						



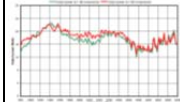
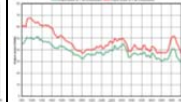

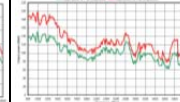

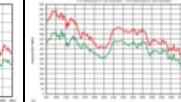
Model	MT 400	MT 700	MT 1200	MT 1400	MT 2000	MT 2800
Frequency	80 MHz - 1000 MHz	80 MHz - 1000 MHz	80 MHz - 1000 MHz	80 MHz - 1000 MHz	80 MHz - 1000 MHz	80 MHz - 1000 MHz
Output Power	400 W Nominal	700 W Nominal	1200 W Nominal	1400 W Nominal	2000 W Nominal	2800 W Nominal
Compression						
3dB Min	400 W min. up to 500 MHz 250 W min. up to 1000 MHz	700 W min. up to 500 MHz 500 W min. up to 1000 MHz	1000 W min. up to 500 MHz 800 W min. up to 1000 MHz	1400 W min. up to 400 MHz 800 W min. up to 1000 MHz	2000 W min. up to 500 MHz 1400 W min. up to 1000 MHz	2700 W min. up to 500 MHz 1800 W min. up to 1000 MHz
1dB min	350 W min. up to 500 MHz 220 W min. up to 1000 MHz	600 W min. up to 500 MHz 400 W min. up to 1000 MHz	1000 W min. up to 500 MHz 700 W min. up to 1000 MHz	1200 W min. up to 400 MHz 700 W min. up to 1000 MHz	2000 W min. up to 500 MHz 1200 W min. up to 1000 MHz	2700 W min. up to 500 MHz 1600 W min. up to 1000 MHz
Harmonics @ 1dB	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc
Amplifier Class	Class A	Class A	Class A	Class A	Class A	Class A
Gain	54 dB	56 dB	57 dB	57 dB	60 dB	60 dB
Mismatch Tolerance	Infinite VSWR without damage!		Infinite VSWR without damage!		Infinite VSWR without damage!	
Power Limiting	none	Self-limitation for reflected power > 450W	Self-limitation for reflected power > 600W	Self-limitation for reflected power > 600W	Self-limitation for reflected power > 1000W	Self-limitation for reflected power > 1400W
Input Power	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.
Input/Output cont.	N(f)/N(f) front or rear	N(f)/7-16(f) front or rear	N(f)/7-16(f) front or rear	N(f)/7-16(f) front or rear	N(f)/7-16(f) front or rear	N(f)/7-16(f) front or rear
Size L x W x H	25.2 x 17.7 x 12.3 in	33.1 x 23.6 x 52 in	33.1 x 23.6 x 62.6 in	33.1 x 23.6 x 62.6 in	33.1 x 31.5 x 76.4 in	2x 33.1 x 31.5 x 76.4 in
19" rack units	7U	24U Rack on Wheels	30U Rack on Wheels	30U Rack on Wheels	38U Rack on Wheels	2x 38U Rack on Wheels
AC Power Volts	200-250 VAC, 1Ø	3Ø (star or delta)	3 Ø (star or delta)	3 Ø (star or delta)	3Ø (star or delta)	3 Ø (star or delta)
AC Power Current	10 A at 230 VAC	4.6 KVA	9 KVA	9 KVA	18.4 KVA	36.8 KVA
Weight	44 kg / 97 lb	240 kg / 529 lb	360 kg / 792 lb	360 kg / 792 lb	590 kg / 1298 lb	2x 590kg / 2x 1298lb
Versions Available	D, DC	DC	DC	DC	DC	DC
Typical Output Power (see data sheet or request production data)						

S= Standard, SC=Internal Duel Directional Coupler (DDC), D=Digital Control, DC=Digital Control with DDC



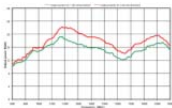
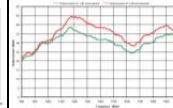
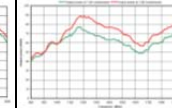
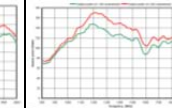
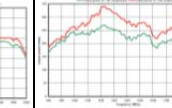
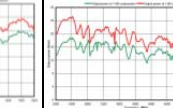
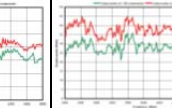
Model	SV 20	SV 40	SV 70	SV 120	SV 220	SV 450
Frequency	0.8 GHz - 3.2 GHz	0.8 GHz - 3.2 GHz	0.8 GHz - 3.2 GHz	0.8 GHz - 3.2 GHz	0.8 GHz - 3.2 GHz	0.8 GHz - 3.2 GHz
Output Power	20 W Nominal	40 W Nominal	70 W Nominal	120 W Nominal	220 W Nominal	450 W Nominal
Compression						
3dB min	17 W min. up to 2 GHz 13 W min. up to 3.2 GHz	35 W min. up to 2 GHz 30 W min. up to 3.2 GHz	70 W min. up to 2 GHz 50 W min. up to 3.2 GHz	120 W min. up to 2 GHz 100 W min. up to 3.2 GHz	200 W min. up to 2 GHz 180 W min. up to 3.2 GHz	420 W min. up to 2 GHz 340 W min. up to 3.2 GHz
1dB min	15 W min. up to 2 GHz 12 W min. up to 3.2 GHz	30 W min. up to 2 GHz 25 W min. up to 3.2 GHz	60 W min. up to 2 GHz 40 W min. up to 3.2 GHz	90 W min. up to 2 GHz 70 W min. up to 3.2 GHz	180 W min. up to 2 GHz 160 W min. up to 3.2 GHz	300 W min. up to 2 GHz 250 W min. up to 3.2 GHz
Harmonics @ 1dB	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc @ 1dB
Amplifier Class	Class A	Class A	Class A	Class A	Class A	Class A
Sm. Signal Gain	41 dB	47 dB	50 dB	55 dB	60 dB	60 dB
Mismatch Tolerance	Infinite VSWR without damage!	Infinite VSWR without damage!	Infinite VSWR without damage!	Infinite VSWR without damage!	Infinite VSWR without damage!	Infinite VSWR without damage!
Power Limiting	none	none	none	none	none	none
Input power	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.
Input/Output cont.	N(f)/N(f) front or rear	N(f)/N(f) front or rear	N(f)/N(f) front or rear	N(f)/N(f) front or rear	N(f)/N(f) front or rear	N(f) / 7-16(f) front or rear
Size L x W x H	25.2 x 17.7 x 3.5 in	25.2 x 17.7 x 7 in	25.2 x 17.7 x 7 in	25.2 x 17.7 x 12.3 in	25.2 x 17.7 x 12.3 in	23.6 x 33.1 x 41.3 in
19" Rack Units	2U	4U	4U	7U	7U	18U Rack on Wheels
AC Power Volts	90-250 VAC, 1Ø	90-250 VAC, 1Ø	90-250 VAC, 1Ø	200-250 VAC, 1Ø	200-250 VAC, 1Ø	3 Ø (star or delta)
AC Power Current	1.8 A at 110 VAC	3.2 A at 110 VAC	3.2 A at 110 VAC	4.8 A at 230 VAC	8.3 A at 230 VAC	4 kVA
Weight	13 kg / 28.6 lb	20 kg / 44 lb	25 kg / 55 lb	33 kg / 77.2 lb	45 kg / 99 lb	230 kg / 506 lb
Versions Available	S, SC, D, DC	S, SC, D, DC	S, SC, D, DC	D, DC	D, DC	D, DC
Typical Output Power (see data sheet or request production data)						



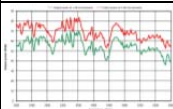
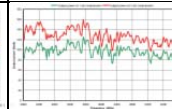
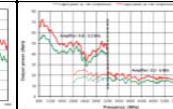
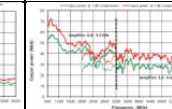
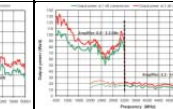
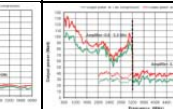
Model	SW 18	SW 35	SW 65	SW 100	SW 200	SW 420
Frequency	0.8 GHz - 4 GHz	0.8 GHz - 4 GHz	0.8 GHz - 4 GHz	0.8 GHz - 4 GHz	0.8 GHz - 4 GHz	0.8 GHz - 4 GHz
Output Power	18 W Nominal	35 W Nominal	65 W Nominal	100 W Nominal	200 W Nominal	420 W Nominal
Compression						
3dB min	15 W min. up to 2.5 GHz 13 W min. up to 4 GHz	30 W min. up to 3 GHz 25 W min. up to 4 GHz	50 W min. up to 3 GHz 40 W min. up to 4 GHz	90 W min. up to 3 GHz 70 W min. up to 4 GHz	180 W min. up to 3 GHz 160 W min. up to 4 GHz	400 W min. up to 3 GHz 300 W min. up to 4 GHz
1dB min	13 W min. up to 2.5 GHz 12 W min. up to 4 GHz	25 W min. up to 3 GHz 20 W min. up to 4 GHz	40 W min. up to 3 GHz 30 W min. up to 4 GHz	70 W min. up to 3 GHz 60 W min. up to 4 GHz	140 W min. up to 3 GHz 120 W min. up to 4 GHz	300 W min. up to 3 GHz 230 W min. up to 4 GHz
Harmonics @ 1dB	<-20 dBc @ 1dB comp.	<-20 dBc @ 1dB comp.	<-20 dBc @ 1dB comp.	<-20 dBc @ 1dB comp.	<-20 dBc @ 1dB comp.	<-20 dBc @ 1dB comp.
Amplifier Class	Class A	Class A	Class A	Class A	Class A	Class A
Sm. Signal Gain	47 dB	47 dB	50 dB	56 dB	60 dB	60 dB
Mismatch Tolerance	Infinite VSWR without damage!	Infinite VSWR without damage!	Infinite VSWR without damage!	Infinite VSWR without damage!	Infinite VSWR without damage!	Infinite VSWR without damage!
Power Limiting	none	none	none	none	none	none
Input power	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.
Input/Output cont.	N(f)/N(f) front or rear	N(f)/N(f) front or rear	N(f)/N(f) front or rear	N(f)/N(f) front or rear	N(f)/N(f) front or rear	N(f)/7-16(f) front or rear
Size L x W x H	25.2 x 17.7 x 3.5 in	25.2 x 17.7 x 7 in	25.2 x 17.7 x 7 in	25.2 x 16.9 x 12.3 in	25.2 x 16.9 x 12.3 in	23.6 x 33.1 x 41.3 in
19" Rack Units	2U	4U	4U	7U	7U	18U Rack on Wheels
AC Power Volts	90-250 VAC, 1Ø	90-250 VAC, 1Ø	90-250 VAC, 1Ø	200-250 VAC, 1Ø	200-250 VAC, 1Ø	3 Ø (star or delta)
AC Power Current	1.8 A at 110 VAC	3.1 A at 110 VAC	4.5 A at 110 VAC	4.8 A at 230 VAC	8.5 A at 230 VAC	4 kVA
Weight	13 kg / 28.6 lb	20 kg / 44 lb	25 kg / 55 lb	33 kg / 77.2 lb	45 kg / 99 lb	230 kg / 506 lb
Versions Available	S, SC, D, DC	S, SC, D, DC	S, SC, D, DC	D, DC	D, DC	D, DC
Typical Output Power (see data sheet or request production data)						

S= Standard, SC=Internal Duel Directional Coupler (DDC), D=Digital Control, DC=Digital Control with DDC



Model	TU 16	TU 30	TU 60	TU 100	TU 200	UX 15	UX 30
Frequency	0.8 GHz - 2 GHz	0.8 GHz - 2 GHz	0.8 GHz - 2 GHz	0.8 GHz - 2 GHz	0.8 GHz - 2 GHz	2 GHz – 6 GHz	2 GHz – 6 GHz
Output Power	16 W Nominal	30 W Nominal	60 W Nominal	100 W Nominal	200 W Nominal	15 W Nominal	30 W Nominal
Compression							
3dB min	10 W min. up to 1 GHz 14 W min. up to 2 GHz	20 W min. up to 1 GHz 27 W min. up to 2 GHz	40 W min. up to 1 GHz 50 W min. up to 2 GHz	65 W min. up to 1 GHz 90 W min. up to 2 GHz	140 W min. up to 1 GHz 200 W min. up to 2 GHz	16 W min. up to 4 GHz 14 W min. up to 6 GHz	30 W min. up to 4 GHz 25 W min. up to 6 GHz
1dB min	8 W min. up to 1 GHz 10 W min. up to 2 GHz	16 W min. up to 1 GHz 22 W min. up to 2 GHz	35 W min. up to 1 GHz 40 W min. up to 2 GHz	60 W min. up to 1 GHz 75 W min. up to 2 GHz	130 W min. up to 1 GHz 160 W min. up to 2 GHz	12 W min. up to 4 GHz 11 W min. up to 6 GHz	20 W min. up to 4 GHz 17 W min. up to 6 GHz
Harmonics @ 1dB	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc
Amplifier Class	Class A	Class A	Class A	Class A	Class A	Class A	Class A
Sm. Signal Gain	40 dB	44 dB	50 dB	50 dB	60 dB	46 dB	49 dB
Mismatch Tolerance	Infinite VSWR without damage!		Infinite VSWR without damage!		Infinite VSWR without damage!		Infinite VSWR without damage!
Power Limiting	none	none	none	none	none	none	none
Input power	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.
Input/Output cont.	N(f)/N(f) front or rear	N(f)/N(f) front or rear	N(f)/N(f) front or rear	N(f)/N(f) front or rear	N(f)/N(f) front or rear	N(f)/N(f) front or rear	N(f)/N(f) front or rear
Size L x W x H	25.2 x 17.7 x 3.5 in	25.2 x 17.7 x 3.5 in	25.2 x 17.7 x 7 in	25.2 x 17.7 x 7 in	25.2 x 17.7 x 10.5 in	25.2 x 17.7 x 3.5 in	25.2 x 17.7 x 7 in
19" Rack Units	2U	2U	4U	4U	6U	2U	4U
AC Power Volts	90-250 VAC, 1Ø	90-250 VAC, 1Ø	90-250 VAC, 1Ø	90-250 VAC, 1Ø	90-250 VAC, 1Ø	90-250 VAC, 1Ø	90-250 VAC, 1Ø
AC Power Current	1.4 A at 110 VAC	2.3 A at 110 VAC	4.2 A at 110 VAC	4.5 A at 110 VAC	12.8 A at 110 VAC	2 A at 110 VAC	3.2 A at 110 VAC
Weight	14 kg / 31 lb	15 kg / 33 lb	35 kg / 77 lb	37 kg / 81 lb	65 kg / 143 lb	11 kg / 24.2 lb	20 kg / 44 lb
Versions Available	S, SC, D, DC	S, SC, D, DC	S, SC, D, DC	S, SC, D, DC	D, DC	S, SC, D, DC	S, SC, D, DC
Typical Output Power (see data sheet or request production data)							

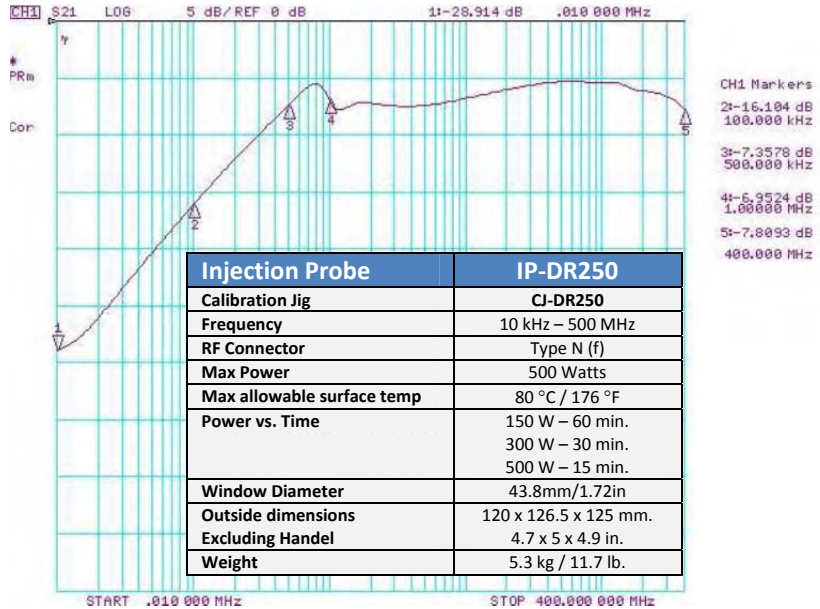
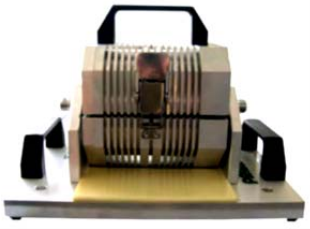


Model	UX 55	UX 100	SX 40/15	SX 40/30	SX70/15	SX 70/30
Frequency	2 GHz – 6 GHz	2 GHz – 6 GHz	0.8 GHz - 6 GHz	0.8 GHz - 6 GHz	0.8 GHz - 6 GHz	0.8 GHz - 6 GHz
Output Power			Dual Band Switch @ 3.2 GHz	Dual Band Switch @ 3.2 GHz	Dual Band Switch @ 3.2 GHz	Dual Band Switch @ 3.2 GHz
Nominal Power	55 W Nominal	100 W Nominal	40/15 W Nominal	40/30 W Nominal	70/15W Nominal	70/30 W Nominal
Compression						
3dB min	50 W min. up to 4 GHz 45 W min. up to 6 GHz	90 W min. up to 4 GHz 75 W min. up to 6 GHz	30 W min. up to 3.2 GHz 14 W min. up to 6 GHz	30 W min. up to 3.2 GHz 23 W min. up to 6 GHz	50 W min. up to 3.2 GHz 14 W min. up to 6 GHz	50 W min. up to 3.2 GHz 14 W min. up to 6 GHz
1dB min	40 W min. up to 4 GHz 35 W min. up to 6 GHz	70 W min. up to 4 GHz 55 W min. up to 6 GHz	25 W min. up to 3.2 GHz 10 W min. up to 6 GHz	25 W min. up to 3.2 GHz 16 W min. up to 6 GHz	40 W min. up to 3.2 GHz 10 W min. up to 6 GHz	25 W min. up to 3.2 GHz 16 W min. up to 6 GHz
Harmonics @ 1dB	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc	<-20 dBc
Amplifier Class	Class A	Class A	Class A	Class A	Class A	Class A
Sm. Signal Gain	52 dB	56 dB	47 dB	47 dB	50 dB	50 dB
Mismatch Tolerance	Infinite VSWR without damage!		Infinite VSWR without damage!		Infinite VSWR without damage!	
Power Limiting	none	none	none	none	none	none
Input power	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.	10 dBm max.
Input/Output cont.	N(f)/N(f) front or rear	N(f)/N(f) front or rear	N(f)/N(f) front or rear	N(f)/N(f) front or rear	N(f)/N(f) front or rear	N(f)/N(f) front or rear
Size L x W x H	25.2 x 17.7 x 7 in	25.2 x 16.9 x 12.3 in	25.2 x 17.7 x 7 in	25.2 x 16.9 x 12.3 in	25.2 x 17.7 x 12.3 in	25.2 x 16.9 x 12.3 in
19" Rack Units	4U	7U	4U	7U	7U	7U
AC Power Volts	90-250 VAC, 1Ø	200-250 VAC, 1Ø	90-250 VAC, 1Ø	200-250 VAC, 1Ø	90-250 VAC, 1Ø	200-250 VAC, 1Ø
AC Power Current	5.4 A at 110 VAC	4.6 A at 230 VAC	3.3 A at 110 VAC	1.7 A at 230 VAC	5.6 A at 110 VAC	4.8 A at 230 VAC
Weight	25 kg / 55 lb	37 kg / 81 lb	25 kg / 44 lb	37 kg / 44 lb	37 kg / 44 lb	33 kg / 77.2 lb
Versions Available	S, SC, D, DC	D, DC	S, SC, D, DC	S, SC, D, DC	S, SC, D, DC	S, SC, D, DC
Typical Output Power (see data sheet or request production data)						

S= Standard, SC=Internal Duel Directional Coupler (DDC), D=Digital Control, DC=Digital Control with DDC

High Power BCI probe

- MIL-STD-461 CS114
- DO160 Section 20
- Automotive Standards



We have local representatives all over North America you may find their contact information on our web site:

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