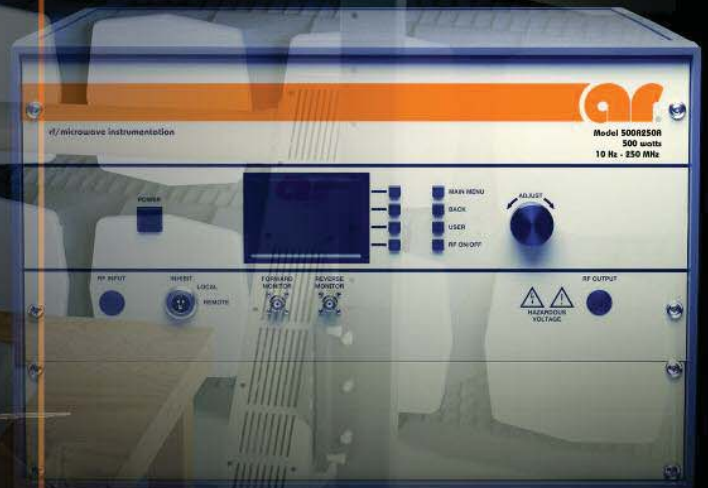




Advanced Test Equipment Rentals
www.atecorp.com 800-404-ATEC (2832)



RF Power Amplifiers

for EMC and General RF Testing

"A" Series.

DC to 400 MHz.

25 to 10,000 watts.

"W" Series.

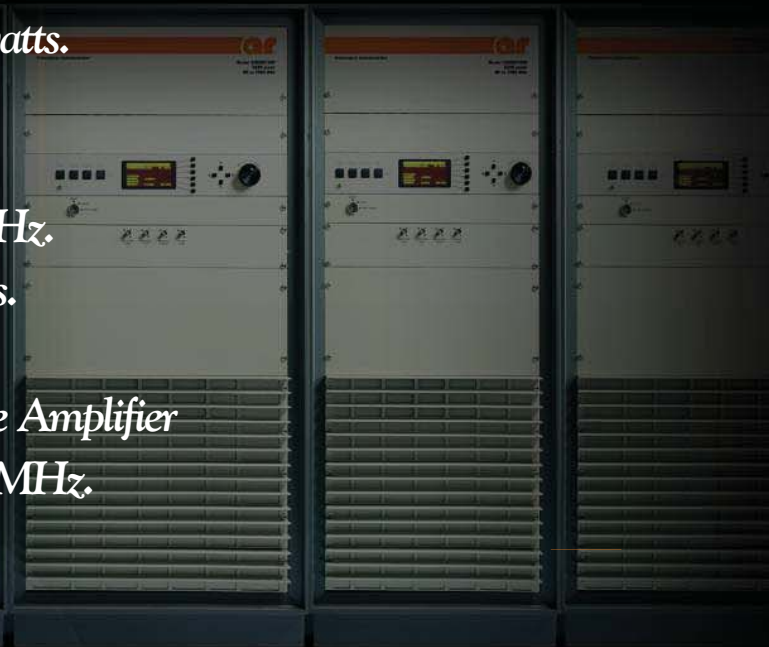
DC to 1000 MHz.

1 to 4000 watts.

Distributed Tube Amplifier

10 kHz to 100 MHz.

10,000 watts.



"We started the company in my basement. Because the only place we could go from there was up."

Don Shepherd, Founder

AR began in 1969 with just two men in a cellar, moonlighting from their regular jobs. Don ("Shep") Shepherd and his partner, Dan Roth, worked for AEL (American Electronics Laboratories), producing radio frequency design for military applications. They saw a market for their skills in designing amplifiers for test applications, but AEL was not set up for such jobs. So they decided to try and make it on their own, working out of a makeshift laboratory in Shep's cellar.



1969 - We sold our first amplifier for a total of \$600 (including \$60 for special connectors).



1970 - Moved out of Shep's cellar and up to small rented storefront.



1972 - Distribution expands into Europe.

1973 - Amplifier Research (AR) moves to new headquarters at 160 School House Rd. in Souderton, PA.

1976 - AR introduces first 10,000 watt tube amplifier (10 kHz - 100 MHz). It's still available, and there's still no equal.



1979 - Company passes \$1 million in sales.

1987 - 75 employees now work for AR.

1988 - First 100 watt solid-state, 100 - 1000 MHz instantaneous bandwidth amplifier built. It weighed 215 lbs. and was 29.3" high.



1990 - Second building completed at headquarters. Sales exceed \$10 million.

1992 - AR unveils first 500 watt solid-state amplifier (100 - 1000 MHz).



1994 - A third building is erected at 160 School House Rd.

1996 - AR reaches \$25 million in sales with 100 employees.



2001 - The company expands its capabilities into amplifier modules and customized systems with the acquisition of Kabmus in Bothell, WA, now AR Modular RF. Back in Souderton, a fourth building is completed. Sales exceed \$35 million.



2002 - Camel Labs in Canoga Park, CA joins the AR family, becoming AR Receiver Systems.



2003 - First 10,000 watt / 100 kHz - 250 MHz solid-state amplifier for automotive/military/avionics testing created. Still the only 10,000 watt solid state available.

2004 - The little company that started in a cellar now has 125 employees.

2005 - New engineering department and microelectronics lab (clean room) open. Sales pass the \$45 million mark.

2006 - New 15,000 sq. ft. building is completed at corporate headquarters with expanded production facilities to meet the ever-growing demand for AR products. 150 employees now work for AR.



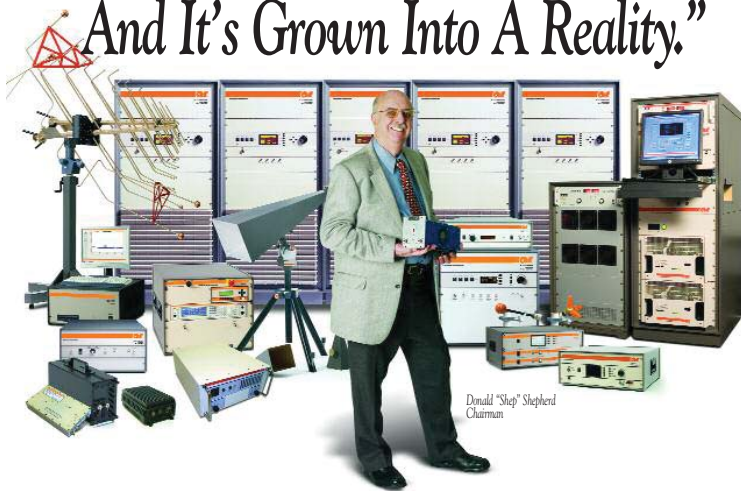
2007 - AR introduces first 10 - 20 GHz / 5 watt instantaneous bandwidth test amplifier.

2009 - AR celebrates 40 years in business.

AR, which now encompasses AR RF/Microwave Instrumentation, AR Modular RF, AR Receiver Systems and AR Europe, employs over 200 people and continues to lead the industry with innovative, superior quality, technologically-advanced products and a global support system that's second to none. We definitely have risen far from Shep's cellar.



“We Started With A Dream, And It’s Grown Into A Reality.”



Donald "Shep" Shepherd
Chairman

Today we're recognized as the ultimate source for testing and communications solutions in the worlds of EMC, military, wireless, and beyond. And our products are everywhere. They're boosting the power of military radios for our troops in battle; driving the most sophisticated industrial/medical/scientific equipment; testing the emissions and susceptibility of electronic equipment; and helping new electronic products get to market faster.

We've become the industry leader by continually setting the bar a little higher. By raising quality. And increasing cost-efficiency. With innovations like "subampability" – the ability to add power to existing amps; and test systems that can be upgraded from the Internet to adapt to changing specs.

With the combined resources of all the AR companies, AR is your source for everything from RF power amplifiers, antennas, complete test systems, probes, monitors, software and receivers to military booster amps, and RF amplifier modules that can be customized to meet the toughest specs.

We take great pride in the support & service we deliver to our customers anywhere in the world, whenever they need it.

Infinite VSWR Tolerance Means More Power To You.

Approximately 80% of the amplifiers in this brochure are completely immune to load VSWR. That means 100% of the power is delivered to the load 100% of the time. Our highest power amplifiers refuse to limit until VSWR exceeds 6.0:1 or 50% (of rated output) reflected power. Competitive Class AB amplifiers respond to reflected power from high VSWR by limiting output power at the exact time you need every bit of power. Some actually shut down. We find that completely unacceptable.

All “Class A” Is Not The Same.

Folding back is typical of Class AB and lesser-grade Class A designs. AR's Class A circuitry is built to higher standards:

- AR uses tandem push-pull transistor pairs. This arrangement is more rugged than the single output devices found in lesser grade Class A amplifiers.
- AR amplifiers use only top quality, high-power internal directional couplers
- AR amplifiers use switching power supplies to increase efficiency and reduce internal heat load.
- AR amplifiers use internal power combiners that can withstand high reflected power.

It's no wonder that only AR claims and delivers 100% rated power to the load!



Microelectronics

Good Enough Isn't Good Enough. So We Keep Tweaking.

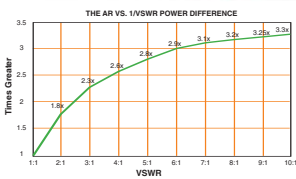


Solid State, Low Frequency Amplifiers.

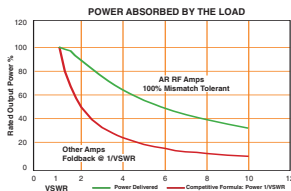
We're constantly under the cover of our amplifiers tweaking the major components and making improvements. After years of R&D, AR has perfected the technology of optimal module performance. The result is increased bandwidth and more power, especially at the high end of the frequency range.

Two modules, one from 100 kHz to 250 MHz and one from 100 kHz to 400 MHz, offer this new technology. These modules serve as basic building blocks for the 10,000A250A and 5000A250A amplifiers, as well as for the 100A400 and 150A400 amplifiers for BCI applications.

The need for higher power is continually increasing; and AR is ready. Our new "A" Series amplifiers feature 500, 1000, and 2500-watt models with expanded coverage down to 10 kHz. And we're now able to pack more power into smaller "packages."



The Difference Is Several Times Greater.
Most AR amplifiers do not fold back or limit. The power absorbed by the load is many times greater than with competitive amplifiers that fold back at 1/VSWR.



The Difference Is Power Delivered To The Load.
Since the output power of AR amplifiers does not fold back with VSWR, more power is absorbed in the load.

Ready For The Future.

Expandable Power

RF test levels are constantly increasing. The same is true for many test distances. Usually, this requires larger, more powerful amplifiers. It also means throwing out your old amps. But AR is changing all that.

Many amplifiers in our "S" and "W" Series allow you to add power to existing amps as needed. There's no need to toss out a perfectly good amp and start all over again. We call this concept "Subampability."™ Much like building blocks, it enables you to add incremental power using existing amps. With a relatively simple upgrade, you can "combine" multiple amps to achieve the power you need. This is clearly an idea whose time has come. But it gets even better.

Since the higher power would be needed only for some tests, "Subampability" enables you to split the amplifiers so that they can be used individually whenever needed.

Here's an example of how "Subampability" works: If you start with a 1000W1000C amplifier (1000 Watts CW, 80 - 100 MHz) and then you need more power, you can add another 1000W1000C amplifier and a controller/combiner for 2000 watts of power. And you can keep going! With three 1000W1000C amplifiers

and one controller/combiner, you get 3000 watts of power; and so on up to 4000 watts. The amplifiers can still be used independently when tests call for less power.

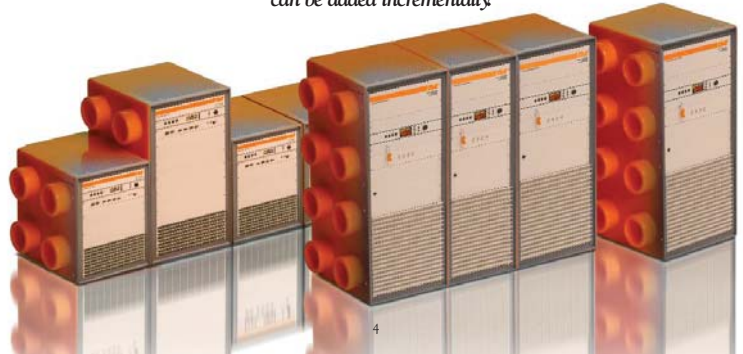
See Application Note #40A Expandable Power for further details.

We design our amplifiers not just for today, but for tomorrow. Most models include:

- Digital Control Panels (DCP) in one of two formats: graphical vacuum fluorescent or two-line vacuum fluorescent
- Built-in IEEE-488 Interface and RS-232 interface (Fiber optic RS-232 on Graphical DC)
- Local and Remote Control (on DCP amplifier)
- Forward and Reflected Power Readout (on graphical DCPs)
- Control Status and Internal Amplifier Status Reports
- USB and Ethernet – on selected models

See individual amplifier spec sheets to verify the features on any amplifier.

Subampability™: (sub-amp-ability). noun: The ability to use an amplifier individually, or as a building block, upon which power can be added incrementally.



A Better Amplifier And A Better Value. Watt For Watt, Our Amplifiers Cost Less!



Lower cost doesn't necessarily equal a better value. Not when you're paying for power that you never get.

The following equation will help you calculate the per-watt cost of your amplifier and the dollar-for-dollar value:

$$\frac{\text{Amplifier Price}}{\text{Power Absorbed by the Load}} = \text{Amplifier Price Per Watt}$$

Consider a typical 100 watt AR Class A amplifier driving a high VSWR (100 watt output, 50% or 50 watts reflected at 6.0:1 and 50 watts absorbed by the load) at a cost of \$20,000—

$$\frac{\$20,000}{50W} = \$400/\text{watt}$$

Compare this with a competitive 100 watt Class AB amplifier also driving a high VSWR (due to foldback, only 34 watts output, 50% or 17 watts reflected at 6.0:1 and 17 watts absorbed by the load) at a cost of \$15,000—

$$\frac{\$15,000}{17W} = \$882/\text{watt}$$

These numbers clearly demonstrate that while the initial cost of AR amplifiers may be higher, the net result based on superior performance is greater value. In other words, our amplifiers provide more bang for the buck!

The Most Comprehensive And Most Meaningful Warranty In The Industry.



AR Competitive Edge products supply a multitude of unique RF solutions to companies around the world. The company's limitless support network reaches the far corners of the globe. AR products are backed by the company's "Competitive Edge" warranty, the best and most comprehensive warranty in the industry. When companies purchase from any AR company they have the peace of mind that comes from knowing the global leader will be there to help with any problems today, tomorrow and always.

A Global Support Network That's Second To None.

A warranty is only as good as the company and the people behind it. AR's highly-trained, experienced support staff is the best in the business. And they are right where you need them, in all the far corners of the globe. Help is just a phone call away... today, tomorrow and always.

See "Sales Associates" at www.ar-worldwide.com for a complete listing or call Customer Service at 215-723-0275. By the way, when you call,

you'll talk to a real receptionist who will connect you to the help you need. You can also call our hotline at 800-933-8181 and talk to directly an applications engineer whose job is to help one person at a time.

Value Right From The Start... a 10% Bonus.

AR's quality makes our products a good value. But we also help you save right up front. When you visit the AR booth at a trade show, you'll receive a bonus coupon that's worth 10% of the purchase price of your AR amplifier toward the purchase of any AR accessory. That's anything other than amplifiers—and it's good for up to \$20,000!

Quality, Value, Service and Innovation That No Other Company Can Match.

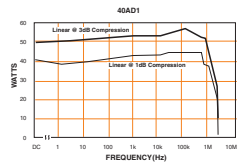
With the combined resources of all the AR companies, AR is your source for everything from power amplifiers, antennas, complete test systems, probes, monitors, software and receivers to amplifier modules that can be customized to meet the toughest specs.

DC to 1 MHz.



40 watts CW, dc-1 MHz.

Rated Output Power 40 watts
Input For Rated Output 1.0 milliwatt max.
Power Output @ 3dB compression Typ. 50 watts / Min. 40 watts
Power Output @ 1dB compression Typ. 40 watts / Min. 25 watts
Flatness ±1.5 dB max.
Frequency Response dc - 1 MHz instantaneously
Gain (at max. setting) 45 dB min.
Gain Adjustment (continuous range) 18 dB min.
Input Impedance 50 ohms, VSWR 1.5:1 max.
Output Impedance 50 ohms, VSWR 2.0:1 max.
Mismatch Tolerance* 100% of rated power without feedback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
Modulation Capability Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Harmonic Distortion Minus 25 dBc max. at 25 watts
Third Order Intercept Point 54 dBm typ.
Primary Power (user must specify)
 90 - 135 / 180 - 220 VAC
 50 / 60 Hz, single phase, autotransforming 400 watts max.
Connectors
 RF Input Type N female on front panel
 RF Output Type N female on front panel
Cooling Forced air (self contained fans)
Weight 16 kg (35 lb)
Size (WxHxD) 50.3 x 15.5 x 30 cm / 19.8 x 6.1 x 11.8 in
 Rack Mountable



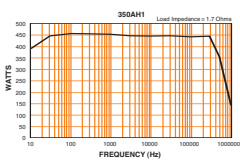
* See Application Note #27A at www.arwinrf.com/nc/appnote27/

10 kHz to 3 MHz.



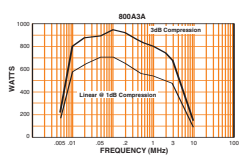
350 watts CW, 10 Hz - 1 MHz.

Operation Class AB Linear
Power Output (1.79 Ohm load) CW, min. 350 watts, 10Hz - 300kHz
 350 - 55 watts, 300kHz - 1MHz
 25 Vrms, 10Hz - 300kHz
 25 - 10 Vrms, 300kHz - 1MHz
Voltage Output, min. 14 Arms, 10Hz - 300kHz
 14 - 5.5 Arms, 300kHz - 1MHz
Current Output, min. ±1.0 dB max.
 ±4.0 dB, 300kHz - 1MHz
Flatness ±1.0 dB, 10Hz - 300kHz
 ±4.0 dB, 300kHz - 1MHz
Frequency Response 10 Hz - 1 MHz instantaneously
Gain (at max. setting) 0 - 2 Vrms
Input Signal 47 dB min., 10Hz - 300kHz
 39 dB min., 300kHz - 1MHz
Gain (Power) 15 dB min.
Gain Control Range 600 ohms typ.
Input Impedance <1W typ.
Output Impedance 100% of rated power without fail
Mismatch Tolerance Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Primary Power 90 - 260 VAC
 47 - 63 Hz, single phase, 1200 watts max.
Connectors
 RF Input Type BNC female on front panel
 RF Output 5-way binding posts on front panel
Remote Control IEEE-488 24 pin female
 RS-232 9 pin subminiature D female
 USB Type B female
 Ethernet RJ-45
Safety Interlock 15 pin subminiature D
Cooling Forced air (self contained fans)
Weight 25 kg (55 lb)
Size (WxHxD) 50.3 x 19.9 x 37.6 cm / 19.8 x 7.85 x 14.8 in
 Rack Mountable



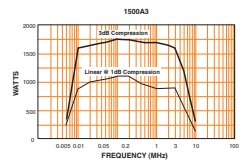
800 watts CW, 10 kHz-3 MHz.

Rated Output Power 800 watts
Input For Rated Output 1.0 milliwatt max.
Power Output @ 3dB compression Nominal 800 watts Min. 700 watts, 10 kHz - 2 MHz
 Min. 600 watts, 2 - 3 MHz
Power Output @ 1dB compression Nominal 500 watts / Min. 400 watts
Flatness ±1.0 dB max.
Frequency Response 10 kHz - 3 MHz instantaneously
Gain (at max. setting) 60 dB min.
Gain Adjustment (continuous range) 23 dB min.
Input Impedance 50 ohms, nominal
Output Impedance (switch select; manual)
 12.5, 25, 50, 100, 150, 200, 400 ohms nominal (10 kHz - 3 MHz) on front panel
Mismatch Tolerance* Will operate without damage or oscillation with any magnitude and phase of source and load impedance. 100% of rated power without feedback up to 6:0:1 mismatch above which may limit to 400 watts reflected power. May limit at rated output.
Modulation Capability Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Harmonic Distortion Minus 20 dBc max. at 400 watts power output
Connectors
 RF Input Type N female on front panel
 RF Output Type N female on front panel
Remote Control IEEE-488/RS-232, USB ability to remote control and power an external impedance transformer.
RF Power Display 0 - 1000 watts full scale. Directional power monitor allows separate display of forward and reflected power.
Power Monitor BNC: 0 - 10V forward and reverse power
Cooling Forced air (self contained fans)
Primary Power Universal, 85 - 137 / 180 - 300 VAC, 47 - 63 Hz, 2500 watts max.
Weight (max.) 36.4 kg (80 lb)
Size (WxHxD) 50.3 x 34 x 55.1 cm / 19.8 x 13.4 x 21.7 in
 For external impedance transformer options, see specification sheet for IT2000 Series impedance transformers.



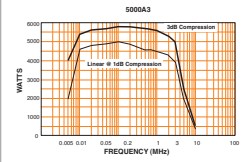
1500 watts CW, 10 kHz-3 MHz.

Rated Output Power 1500 watts
Input For Rated Output 1.0 milliwatt max.
Power Output @ 3dB compression Nominal 1500 watts / Min. 1400 watts
Power Output @ 1dB compression Nominal 1000 watts / Min. 800 watts
Flatness ±1.0 dB max.
Frequency Response 10 kHz - 3 MHz instantaneously
Gain (at max. setting) 63 dB min.
Gain Adjustment (continuous range) 23 dB min.
Input Impedance 50 ohms, nominal
Output Impedance 50 ohms, nominal (10kHz - 3MHz)
Mismatch Tolerance* Will operate without damage or oscillation with any magnitude and phase of source and load impedance. 100% of rated power without feedback up to 6:0:1 mismatch above which may limit to 800 watts reflected power. May limit at rated output.
Modulation Capability Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Connectors
 RF Input Type N female on front panel
 RF Output Type N female on front panel
Remote Control IEEE-488/RS-232, USB ability to remote control and power an external impedance transformer.
RF Power Display 0 - 2000 watts full scale. Directional power monitor allows separate display of forward and reflected power.
Power Monitor BNC: 0 - 10V forward and reverse power
Cooling Forced air (self contained fans)
Primary Power Universal, 180 - 275 VAC, 47 - 63 Hz, 5000 watts max.
Weight (max.) 136 kg (300 lb)
Size (WxHxD) 56.1 x 109.2 x 88.9 cm / 22.1 x 43 x 35 in
 For external impedance transformer options, see specification sheet for IT2000 Series impedance transformers.



5000 watts CW, 10 kHz-3 MHz.

Rated Output Power 5000 watts
Input For Rated Output 1.0 milliwatt max.
Power Output @ 3dB compression 2500 watts min.
Frequency Response 10 kHz - 3 MHz instantaneously
Flatness ±1.0 dB max.
Gain (at max. setting) 67 dB min.
Gain Adjustment (continuous range) 20 dB min.
Input Impedance 50 ohms, VSWR 1.5:1 max.
Output Impedance 50 ohms, nominal
Mismatch Tolerance* 100% of rated power without feedback up to 6:0:1 mismatch above which may limit to 2500 watts reflected power.
Modulation Capability Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Harmonic Distortion Minus 20 dBc max. at 2500 watts power output.
Third Order Intercept Point 74 dBm typ.
RF Power Display Forward and Reverse
Primary Power (user must specify)
 200 - 240 VAC Delta (4 wire), Wye compatible
 346 - 416 VAC, Wye (5 wire)
 400 - 480 VAC Delta (4 wire), Wye compatible
 47 - 63 Hz, 3 phase
 20,000 watts max.
Connectors
 RF Input Type N female on rear panel
 RF Output Type ELA 1.58 male on rear panel
 Detected RF Type BNC female on front panel
Remote Control IEEE-488 Forward/Reverse, 0 - 10Vdc
 24 pin female GPIB/IEEE-488 connector on rear panel, RS-232, USB, Ethernet
Safety Interlock 15 pin female Type D on rear panel
Cooling Forced air (self contained fans)
Weight (approximate) 567 kg (1250 lb)
Size (WxHxD) 168 x 112.42 x 67.15 cm / 66.18 x 44.26 x 26.44 in
 For external impedance transformer options, see specification sheet for IT2000 Series impedance transformers.

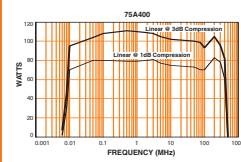


10 kHz to 400 MHz.



75 watts CW, 10 kHz-400 MHz.

Rated Output Power 75 watts min.
Input For Rated Output 1.0 milliwatt max.
Power Output @ 3dB compression 2500 watts min.
Power Output @ 1dB compression Nominal 100 watts / Min. 75 watts
Flatness ±1.5 dB max.
Frequency Response 10 kHz - 400 MHz instantaneously
Gain (at max. setting) 49 dB min.
Gain Adjustment (continuous range) 18 dB min.
Input Impedance 50 ohms, VSWR 1.5:1 max.
Output Impedance 50 ohms, VSWR 2.0:1 max.
Mismatch Tolerance* 100% of rated power without feedback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
Modulation Capability Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Harmonic Distortion Minus 20 dBc max. at 50 watts
Third Order Intercept Point 57 dBm typ.
Primary Power 90 - 135 / 180 - 270 VAC
 47 - 63 Hz, single phase, 400 watts max.
Connectors
 RF Input Type N female on front panel
 RF Output Type N female on front panel
Remote Interlocks IEEE-488 24 pin female
 RS-232 9 pin Subminiature D female
Safety Interlock 15 pin Subminiature D
Cooling Forced air (self contained fans)
Weight 234 kg (515 lb)
Size (WxHxD) 50.3 x 15.5 x 37.6 cm / 19.8 x 6.1 x 14.8 in
 Rack Mountable



10 kHz to 250 MHz.



25 watts CW. 10 kHz-250 MHz.

Rated Output Power 25 watts
Input For Rated Output 1.0 milliwatt max.
Power Output @ 3dB compression Nominal 32 watts / Min. 25 watts
Power Output @ 1dB compression Nominal 20 watts / Min. 15 watts
Flatness ±1.0 dB max.
Frequency Response 10 kHz - 250 MHz instantaneously
Gain (at max. setting) 44 dB min.
Gain Adjustment (continuous range) 18 dB min.
Input Impedance 50 ohms, VSWR 1.5:1 max.
Output Impedance 50 ohms, nominal
Mismatch Tolerance* 100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
Modulation Capability Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Noise Figure (above 1.0 MHz) 16 dB typ.
Harmonic Distortion Minus 20 dBc max. at 15 watts
Third Order Intercept Point 54 dBm typ.
Primary Power 90 - 135 / 180 - 270 VAC
 47 - 63 Hz, single phase, 200 watts max.
Connectors
 RF Input Type N female on front panel
 RF Output Type N female on front panel
Cooling Forced air (self contained fans)
Weight 15.9 kg (35 lb)
Size (WxHxD) 50.3 x 15.5 x 30 cm / 19.8 x 6.1 x 11.8 in
 Rack Mountable



75 watts CW. 10 kHz-250 MHz.

Rated Output Power 75 watts
Input For Rated Output 1.0 milliwatt max.
Power Output @ 3dB compression Nominal 100 watts / Min. 75 watts
Power Output @ 1dB compression Nominal 70 watts / Min. 50 watts
Flatness ±1.0 dB max.
Frequency Response 10 kHz - 250 MHz instantaneously
Gain (at max. setting) 49 dB min.
Gain Adjustment (continuous range) 18 dB min.
Input Impedance 50 ohms, VSWR 1.5:1 max.
Output Impedance 50 ohms, VSWR 2.0:1 max.
Mismatch Tolerance* 100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
Modulation Capability Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Noise Figure (above 1.0 MHz) 16 dB typ.
Harmonic Distortion Minus 20 dBc max. at 50 watts
Third Order Intercept Point 57 dBm typ.
Primary Power 90 - 135 / 180 - 270 VAC
 47 - 63 Hz, single phase, 400 watts max.
Connectors
 RF Input Type N female on front panel
 RF Output Type N female on front panel
Remote Interfaces
 IEEE-488 24 pin female
 RS-232 9 pin Subminiature D female
Cooling Forced air (self contained fans)
Weight 20.5 kg (45 lb)
Size (WxHxD) 50.3 x 15.5 x 37.6 cm / 19.8 x 6.1 x 14.8 in
 Rack Mountable



100 watts CW. 10 kHz-250 MHz.

Rated Output Power 100 watts
Input For Rated Output 1.0 milliwatt max.
Power Output @ 3dB compression Nominal 137 watts / Min. 125 watts
Power Output @ 1dB compression Nominal 107 watts / Min. 75 watts
Flatness ±1.5 dB max.
Frequency Response 10 kHz - 250 MHz instantaneously
Gain (at max. setting) 50 dB min.
Gain Adjustment (continuous range) 18 dB min.
Input Impedance 50 ohms, VSWR 1.5:1 max.
Output Impedance 50 ohms, VSWR 2.0:1 max.
Mismatch Tolerance* 100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
Modulation Capability Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Noise Figure (above 1.0 MHz) 10 dB typ.
Harmonic Distortion Minus 20 dBc max. at 75 watts
Third Order Intercept Point 58 dBm typ.
Primary Power 90 - 135 / 180 - 270 VAC autotransforming
 47 - 63 Hz, single phase, 1000 watts max.
Connectors
 RF Input Type N female on front panel
 RF Output Type N female on front panel
Remote Interfaces
 IEEE-488 24 pin female
 RS-232 9 pin Subminiature D female
Safety Interlock 15 pin Subminiature D
Cooling Forced air (self contained fans)
Weight 31.75 kg (70 lb)
Size (WxHxD) 50.3 x 25.2 x 46.1 cm / 19.8 x 9.9 x 18.1 in
 Rack Mountable



500 watts CW. 10 kHz-250 MHz.

Rated Output Power 500 watts
Input For Rated Output 1.0 milliwatt max.
Power Output @ 3dB compression Nominal 500 watts / Min. 450 watts
Power Output @ 1dB compression Nominal 400 watts / Min. 350 watts
Flatness ±2.0 dB max.
Frequency Response 10 kHz - 256 MHz instantaneously
Gain (at max. setting) 57 dB min.
Gain Adjustment (continuous range) 10 dB min.
Input Impedance 50 ohms, VSWR 1.5:1 max.
Output Impedance 50 ohms, nominal
Mismatch Tolerance* 100% of rated power without foldback up to 6:0.1 mismatch, above which may limit to 250 watts. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
Modulation Capability Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Harmonic Distortion Minus 20 dBc max. at 350 watts
Third Order Intercept Point 61 dBm typ.
RF Power Display 0 - 750 watts full scale
Primary Power 180 - 264 VAC
 47 - 63 Hz, 2500 watts max. @ 0.99 EE typ.
Connectors
 RF Input Type N female on front panel
 RF Output Type N female on front panel
 Forward Sample Type BNC female on front panel
 Reverse Sample Type BNC female on front panel
 Safety Interlock 15 pin female Type D on rear panel
 Remote Control IEEE-488 24 pin female on rear panel
 RS-232 9 pin female Type D on rear panel
 USB Type B female connection on rear panel
Cooling Forced air (self contained fans)
Weight 45.8 kg (101 lb)
Size (WxHxD) 50.3 x 34 x 56.9 cm / 19.8 x 13.4 x 22 in
 Rack Mountable



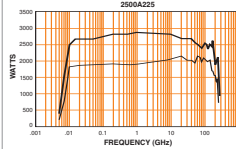
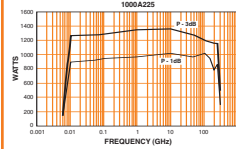
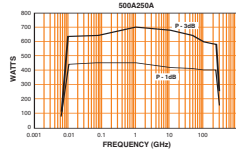
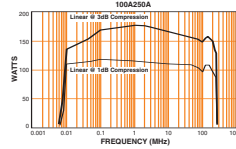
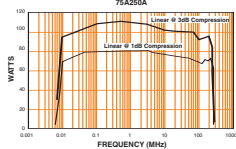
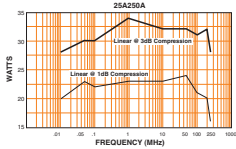
1000 watts CW. 10 kHz-225 MHz.

Rated Output Power 1000 watts
Input For Rated Output 1.0 milliwatt max.
Power Output @ 1dB compression Nominal 900 watts / Min. 700 watts
Flatness ±3.5 dB max.
Frequency Response 10 kHz - 225 MHz instantaneously
Gain (at max. setting) ±0.8 dB with internal leveling
Gain Adjustment (continuous range) 61 dB min.
Input Impedance 50 ohms, VSWR 1.5:1 max.
Output Impedance 50 ohms, nominal
Mismatch Tolerance* 100% rated power without foldback up to 6:0.1 mismatch, above which may limit to 500 watts reflective power.
Modulation Capability Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Harmonic Distortion Minus 20 dBc max. at 750 watts
Third Order Intercept Point 68 dBm typ.
RF Power Display 0 - 2000 watts full scale
Pulse Mode Gating Characteristics Signal (into 50 ohms) ±2.0 to 6.0 VDC
 Rise Time 0.5 microseconds max.
 Fall Time 0.5 microseconds max.
RF Rise/Fall Time 10 nanoseconds max.
Primary Power 187 - 264 VAC
 47 - 63 Hz, single phase (user must specify)
 5000 watts max. at 95 EE typ.
Connectors
 RF Input Type N female on rear panel
 RF Output Type 7-16 DIN Female, rear panel
 Forward RF Sample Type BNC female on front panel
 Reverse Sample Type BNC female on front panel
 Remote Control IEEE-488 and 9-pin RS-232
 Safety Interlock 15 pin female Type D on rear panel
 Remote Control (Fiber Optic) ST connector, Tx and Rx RS-232
Cooling Forced air (self contained fans)
Weight 127 kg (280 lb)
Size (WxHxD) 56.1 x 109.2 x 88.9 cm / 22.1 x 43 x 35 in



2500 watts CW. 10 kHz-225 MHz.

Rated Output Power 2500 watts, 10 kHz - 50 MHz
 1800 watts, 10 kHz - 50 MHz
 1800 - 1900 watts, 50 MHz - 225 MHz
 (derating slope of 3.43 watts/MHz)
Input For Rated Output 1.0 mW max.
Power Output for 1dB compression 1800 watts, 10 kHz - 50 MHz
 1800 - 1900 watts, 50 MHz - 225 MHz
 (derating slope of 3.43 watts/MHz)
Flatness ±3.5 dB max.
Frequency Response 10 kHz - 225 MHz instantaneously
Gain (at max. setting) ±0.8 dB with internal leveling
Gain Adjustment (continuous range) 64 dB min.
Input Impedance 50 ohms, VSWR 2.0:1 max.
Output Impedance 50 ohms, nominal
Mismatch Tolerance* 100% rated power without foldback up to 6:0.1 mismatch, above which may limit to 1250 watts reflected power.
Modulation Capability Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Harmonic Distortion Minus 20 dBc max. at 1600 watts
RF Power Display 0 - 3000 watts full scale
Pulse Mode Gating Characteristics Signal (into 50 ohms) ±2.0 to 6.0 VDC
 Rise Time 0.5 microseconds max.
 Fall Time 0.5 microseconds max.
Primary Power 187 - 264 VAC 3-Phase, 8000 watts max.
Connectors
 RF Input Type N female on front panel
 RF Output Type 7-16 DIN Female, rear panel
 Forward Sample Type BNC female on front panel
 Reverse Sample Type BNC female on front panel
 Safety Interlock 15 pin female Type D on rear panel
 Remote Control 24 pin female GPIB/IEEE-488 and 9-pin RS232 on rear panel, USB and Ethernet
 Remote Control (fiber optic) ST Connector
Cooling Forced air, internal self-contained liquid
Weight 159 kg (350 lb)
Size (WxHxD) 56.1 x 109.2 x 88.9 cm / 22.1 x 43 x 35 in



* See Application Note # 27A at www.nmw-micro.com/oppnote27/

10 kHz to 220 MHz.

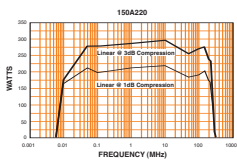
10 kHz to 100 MHz.

100 kHz to 400 MHz.



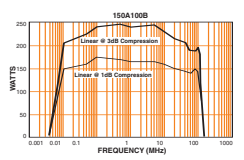
150 watts CW. 10 kHz-220 MHz.

Rated Output Power 150 watts min.
Input For Rated Output 1.0 milliwatt max.
Power Output @ 3dB compression
 Nominal 250 watts / Min. 150 watts
Power Output @ 1dB compression
 Nominal 200 watts / Min. 150 watts
Flatness ±1.5 dB max.
Frequency Response 10 kHz - 220 MHz instantaneously
Gain (at max. setting) 53 dB min.
Gain Adjustment (continuous range) 18 dB min.
Input Impedance 50 ohms, VSWR 1.5:1 max.
Output Impedance 50 ohms, nominal
Mismatch Tolerance*
 100% of rated power without damage, foldback, shutdown or oscillation with any magnitude and phase of source and load impedance at rated output power.
Modulation Capability
 Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Harmonic Distortion (max. at 150 watts)
 Minus 20 dBc, 10 kHz - 125 MHz
 Minus 30 dBc, 125 MHz - 220 MHz
Third Order Intercept Point 60 dBm typ.
RF Rise Time (10% to 90%) 3 nanoseconds max.
Primary Power
 115 - 230 VAC
 50 / 60 Hz, single phase, 1500 watts max.
Connectors
 RF Input Type BNC female on front panel
 RF Output Type N female on front panel
Remote Control 25 Pin Subminiature D
Cooling Forced Air (self-contained fans)
Weight (approximate) 47 kg (105 lb)
Size (WxHxD)
 53.7 x 34.5 x 55 cm / 19.8 x 13.3 x 21.5 in
 Rack Mountable



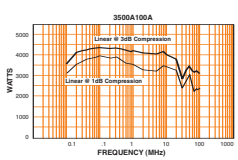
150 watts CW. 10 kHz-100 MHz.

Rated Output Power 150 watts
Input For Rated Output 1.0 milliwatt max.
Power Output @ 3dB compression
 Nominal 220 watts / Min. 180 watts
Power Output @ 1dB compression
 Nominal 155 watts / Min. 125 watts
Flatness ±1.5 dB max.
Frequency Response 10 kHz - 100 MHz instantaneously
Gain (at max. setting) 52 dB min.
Gain Adjustment Range 18 dB min.
Input Impedance 50 ohms, VSWR 1.5:1 max.
Output Impedance 50 ohms, VSWR 2.0:1 max.
Mismatch Tolerance*
 100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
Modulation Capability
 Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Noise Figure (above 1.0 MHz) 6 dB typ.
Harmonic Distortion Minus 20 dBc max. at 125 watts
Third Order Intercept Point 58 dBm typ.
Primary Power
 90 - 135 / 180 - 270 VAC auto ranging
 47 - 63Hz, single phase, 1000 watts max.
Connectors
 RF Input Type N female on front panel
 RF Output Type N female on front panel
Remote Interfaces IEEE-488 24 pin female
 RS-232 9 pin Subminiature D male
Safety Interlock 15 Pin Subminiature D
Cooling Forced air (self contained fans)
Weight 31.75 kg (70 lb)
Size (WxHxD)
 50.3 x 25.2 x 46 cm / 19.8 x 9.9 x 18.1 in
 Rack Mountable



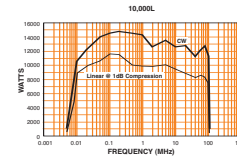
3500 watts CW. 10 kHz-100 MHz.

Rated Output Power 3500 watts
Input For Rated Output 1.0 milliwatt max.
Power Output @ 3dB compression
 Nominal 3000 watts / Min. 2700 watts
Power Output @ 1dB compression
 Nominal 2500 watts / Min. 2000 watts
Flatness ±1.5 dB max. ±0.5 dB with internal leveling
Frequency Response 10 kHz - 100 MHz instantaneously
Gain (at max. setting) 66 dB min.
Gain Adjustment (continuous range) 20 dB min.
Input Impedance 50 ohms, VSWR 1.5:1 max.
Output Impedance 50 ohms, VSWR 2.5:1 max.
Mismatch Tolerance*
 Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May limit to 1750 watts reflected power.
Modulation Capability
 Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Harmonic Distortion Minus 20 dBc max. at 2000 watts
Third Order Intercept Point 73 dBm typ.
RF Power Display 0 - 5000 watts full scale
Pulse Mode Characteristics
 Signal (into 50 ohms) +2.0 to 6.0 VDC
 Rise Time 0.5 microseconds max.
 Fall Time 0.5 microseconds max.
 RF Rise/Fall Time 10 nanoseconds max.
Primary Power (user must specify)
 180 - 267 VAC Delta (4 wire)
 360 - 435 VAC Wye (5 wire)
 47 - 63Hz, 3 phase, 15,000 watts max.
RF Connectors
 RF Input Type N female on rear panel
 RF Output Type 7/16 female on rear panel
 External Leveling Inputs Type BNC female on front panel
 Pulse Modulation Inputs Type BNC female on front panel
 Detected RF Output Type BNC female on front panel
Remote Control 24 pin female GPIB/IEEE-488 connector on rear panel
Safety Interlock 15 pin female Type D on rear panel
Cooling Forced air (self contained fans)
Weight 317.5 kg (700 lb)
Size (WxHxD)
 56.2 x 152 x 100 cm / 22.1 x 60 x 39.4 in



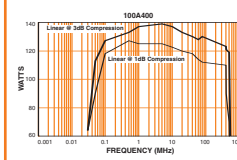
10,000 watts CW. 10 kHz-100 MHz.

Rated Output Power
 Nominal 12,600 watts
 Min. 10,000 watts
Power Output @ 3dB compression
 Linear @ 1dB compression 7500 watts min.
Flatness ±1.5 dB max.
Frequency Response 10 kHz - 100 MHz instantaneously
Gain (at max. setting) 70 dB min.
Gain Adjustment Range 18 dB min.
Input Impedance 50 ohms, VSWR 1.5:1 max.
Output Impedance 50 ohms, nominal
Mismatch Tolerance*
 100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
Modulation Capability
 Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Harmonic Distortion Minus 15 dBc max. at 7500 watts
Blanking Characteristics
 Signal (into 50 ohms) +4.0 to 6.0 VDC
 Delay time 5 microseconds max.
 Signal on to RF off 25 microseconds max.
 Signal off to RF on 10 nanoseconds max.
Primary Power (user must specify)
 200/208 ±5% VAC, 3 phase, 60 Hz
 380/415 ±5% VAC, 3 phase, 50/60 Hz
 75 kVA max.
Connectors
 RF Input Type BNC female on front panel
 RF Output Type EIA 1.58 male on rear panel
 Blanking Type BNC female on front panel
 Remote control 25 pin female subminiature D on rear panel
Cooling Tap water, 20-30 LPM (6-8 GPM) at 20° C max. Air-cooled option available.
Weight 1134 kg (2500 lb)
Size (WxHxD)
 68.8 x 149.9 x 82.6 cm / 27.1 x 59 x 32.5 in



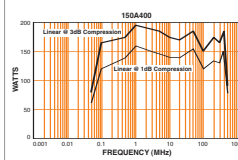
100 watts CW. 100 kHz-400 MHz.

Rated Output Power 100 watts min.
Input For Rated Output 1.0 milliwatt max.
Power Output @ 3dB compression
 Nominal 130 watts / Min. 100 watts
Power Output @ 1dB compression
 Nominal 100 watts / Min. 75 watts
Flatness ±1.5 dB max.
Frequency Response 100 kHz - 400 MHz instantaneously
Gain (at max. setting) 50 dB min.
Gain Adjustment (continuous range) 20 dB min.
Input Impedance 50 ohms, VSWR 1.5:1 max.
Output Impedance 50 ohms, VSWR 2.0:1 typ.
Mismatch Tolerance*
 100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
Modulation Capability
 Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Harmonic Distortion Minus 20 dBc max. at 75 watts
Third Order Intercept Point 58 dBm typ.
Primary Power
 90 - 135 / 180 - 270 VAC auto ranging
 47 - 63Hz, single phase, 1000 watts max.
Connectors
 RF Input Type N female on front panel
 RF Output Type N female on front panel
Remote Interfaces IEEE-488 24 pin female
 RS-232 9 pin Subminiature D female
Safety Interlock 15 pin Subminiature D
Cooling Forced air (self contained fans)
Weight 36 kg (80 lb)
Size (WxHxD)
 50.3 x 25.2 x 46 cm / 19.8 x 9.9 x 18.1 in
 Rack Mountable



150 watts CW. 100 kHz-400 MHz.

Rated Output Power 150 watts min.
Input For Rated Output 1.0 milliwatt max.
Power Output @ 3dB compression
 Nominal 155 watts / Min. 130 watts
Power Output @ 1dB compression
 Nominal 125 watts / Min. 100 watts
Flatness ±1.5 dB max.
Frequency Response 100 kHz - 400 MHz instantaneously
Gain (at max. setting) 52 dB min.
Gain Adjustment Range 20 dB min.
Input Impedance 50 ohms, VSWR 1.5:1 max.
Output Impedance 50 ohms, nominal
Mismatch Tolerance*
 100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
Modulation Capability
 Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Harmonic Distortion Minus 20 dBc max. at 100 watts
Third Order Intercept Point 58 dBm typ.
Primary Power
 90 - 135 / 180 - 270 VAC auto ranging
 47 - 63Hz, single phase, 1000 watts max.
Connectors
 RF Input Type N female on front panel
 RF Output Type N female on front panel
Remote Interfaces IEEE-488 24 pin female
 RS-232 9 pin Subminiature D female
Safety Interlock 15 pin Subminiature D
Cooling Forced air (self contained fans)
Weight 36 kg (80 lb)
Size (WxHxD)
 50.3 x 25.2 x 46 cm / 19.8 x 9.9 x 18.1 in
 Rack Mountable



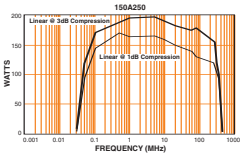
* See Application Note #27A at www.nw-wfmicro.com/appnote27/

100 kHz to 250 MHz.



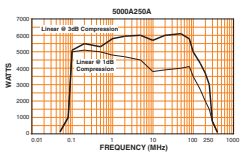
150 watts CW. 100 kHz-250 MHz.

Rated Output Power 150 watts min.
Input For Rated Output 1.0 milliwatt max.
Power Output @ 3dB compression 150 watts / Min. 155 watts
Power Output @ 1dB compression 150 watts / Min. 120 watts
Flatness ±1.5 dB max.
Frequency Response 100 kHz - 250 MHz instantaneously
Gain (at max. setting) 52 dB min.
Gain Adjustment Range 20 dB min.
Input Impedance 50 ohms, VSWR 1.5:1 max.
Output Impedance 50 ohms, VSWR 2.0:1 max.
Mismatch Tolerance* 100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
Modulation Capability Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Harmonic Distortion Minus 20 dBc max. at 120 watts
Third Order Intercept Point 58 dBm typ.
Primary Power 90 - 135 / 180 - 270 VAC auto ranging
Connectors RF Input Type N female on front panel
Remote Interfaces IEEE-488 24 pin female
Safety Interlock RS-232 9 pin subminiature D female
Cooling 15 pin subminiature D female
Weight 31.75 kg (70 lb)
Size (WxHxD) 50.3 x 25.2 x 46 cm / 19.8 x 9.9 x 18.1 in
Rack Mountable



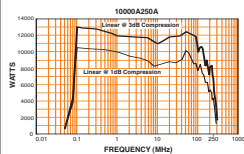
5000 watts CW. 100 kHz-250 MHz.

Rated Output Power 5000 watts, 100 kHz - 100 MHz
 3000 - 3000 watts, 100 MHz - 250 MHz
Input For Rated Output 1.0 milliwatt max.
Power Output @ 1dB compression 5000 watts, 100 kHz - 100 MHz
 3500 - 1500 watts, 100 MHz - 250 MHz
Frequency Response 100 kHz - 250 MHz instantaneously
Gain (at max. setting) 67 dB min.
Gain Adjustment (continuous range) 20 dB min.
Input Impedance 50 ohms, VSWR 1.5:1 max.
Output Impedance 50 ohms, VSWR 2.5:1 max.
Mismatch Tolerance* 100% rated power without foldback up to 6.0:1 mismatch above which may limit to 2500 watts reflected power from 100 kHz to 100 MHz. Limited to 2000 watts reflected power from 100 MHz to 250 MHz.
Modulation Capability Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Harmonic Distortion Minus 20 dBc max. at 3000 watts
Third Order Intercept Point 74 dBm typ.
RF Power Display 0 - 7500 watts full scale
Pulse Mode Gating Characteristics Signal (into 50 ohms) +2.0 to 6.0 VDC
Rise Time 0.5 microseconds max.
Fall Time 0.5 microseconds
RF Rise/Fall Time 10 nanoseconds max.
Primary Power (user must specify) 200 - 240 VAC Delta (4 wire), Wye compatible
 346 - 416 VAC, Wye (5 wire) Wye compatible
 400 - 480 VAC Delta (4 wire), Wye compatible
 47 - 63 Hz, 3 phase, 20,000 watts max.
Connectors RF Input Type N female on rear panel
RF Output Type EIA 1.5/8 male on rear panel
External Leveling Inputs Type BNC female on front panel
Pulse Modulation Inputs Type BNC female on front panel
Detected RF Output Type BNC female on front panel
Remote Control 24 pin female GPIB/IEEE-488 and 9-pin RS-232 connectors on rear panel
Safety Interlock 15 pin female Type D on rear panel
Remote Control (Fiber Optic) ST connector, Tx and Rx RS-232.
Cooling Forced air (self contained fans)
Weight 408 kg (900 lb)
Size (WxHxD) 68.8 x 182.9 x 106.7 cm / 27.1 x 72 x 35 in



10,000 watts CW. 100 kHz-250 MHz.

Rated Output Power 10,000 watts, 100 kHz - 100 MHz
 10,000 - 6,000 watts, 100 MHz - 250 MHz
Input For Rated Output 1.0 milliwatt max.
Power Output @ 1dB compression 7,000 watts, 100 kHz - 100 MHz
 7,000 - 3,000 watts, 100 MHz - 250 MHz
Frequency Response 100 kHz - 250 MHz instantaneously
Gain (at max. setting) 70 dB min.
Gain Adjustment (continuous range) 20 dB min.
Input Impedance 50 ohms, VSWR 1.5:1 max.
Output Impedance 50 ohms, VSWR 2.5:1 max.
Mismatch Tolerance* 100% rated power without foldback up to 6.0:1 mismatch above which may limit to 5,000 watts reflected power from 100 kHz to 100 MHz. Limited to 2,000 watts reflected power from 100 MHz to 250 MHz.
Modulation Capability Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Harmonic Distortion Minus 20 dBc max. at 6000 watts
Third Order Intercept Point 77 dBm typ.
RF Power Display 0 - 15,000 watts full scale
Pulse Mode Gating Characteristics Signal (into 50 ohms) +2.0 to 6.0 VDC
Rise Time 0.5 microseconds max.
Fall Time 0.5 microseconds
RF Rise/Fall Time 10 nanoseconds max.
Primary Power (user must specify) 200 - 240 VAC Delta (4 wire), Wye compatible
 346 - 416 VAC, Wye (5 wire) Wye compatible
 400 - 480 VAC Delta (4 wire), Wye compatible
 47 - 63 Hz, 3 phase, 40,000 watts max.
Connectors RF Input Type N female on rear panel
RF Output Type EIA 1.5/8 male on rear panel
External Leveling Inputs Type BNC female on front panel
Pulse Modulation Inputs Type BNC female on front panel
Detected RF Output Type BNC female on front panel
Remote Control 24 pin female GPIB/IEEE-488 and 9-pin RS-232 connectors on rear panel
Safety Interlock 15 pin female Type D on rear panel
Remote Control (Fiber Optic) ST connector, Tx and Rx RS-232.
Cooling Forced air (self contained fans)
Weight 816 kg (1800 lb)
Size (WxHxD) 142.3 x 182.9 x 88.9 cm / 56 x 72 x 35 in

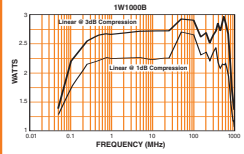


100 kHz to 1000 MHz.



1 watt CW. 100 kHz-1000 MHz.

Rated Output Power 1.0 watts min.
Input For Rated Output 1.0 milliwatt max.
Power Output @ 3dB compression 1.0 milliwatt max.
Power Output @ 1dB compression 1.0 milliwatt max.
Flatness ±0.5 dB typ. / ±1.0 dB max.
Frequency Response 100 kHz - 1000 MHz instantaneously
Gain (at max. setting) 30 dB min.
Input Impedance 50 ohms, VSWR 2.0:1 max.
Output Impedance 50 ohms, VSWR 2.5:1 max.
Mismatch Tolerance* 100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
Modulation Capability Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Harmonic Distortion Minus 20 dBc max. at 1.0 watts
Third Order Intercept Point 42 dBm typ.
Primary Power 90 - 264 VAC
Connectors RF Input Type N female on front panel
RF Output Type N female on front panel
Cooling Forced air (self-contained fans)
Weight 4.5 kg (10 lb)
Size (WxHxD) 26 x 11.2 x 21.6 cm / 10.3 x 4.6 x 8.5 in
Rack Mountable

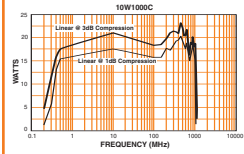


500 kHz to 1000 MHz.



10 watts CW. 500 kHz-1000 MHz.

Rated Output Power 10 watts min.
Input For Rated Output 1.0 milliwatt max.
Power Output @ 3dB compression 10 watts / Min. 10 watts
Power Output @ 1dB compression 10 watts / Min. 10 watts
Flatness ±1.0 dB typ. / ±1.5 dB max.
Frequency Response 500 kHz - 1000 MHz instantaneously
Gain (at max. setting) 40 dB min.
Gain Adjustment (continuous range) 20 dB min. (4096 steps remote)
Input Impedance 50 ohms, VSWR 2.0:1 max.
Output Impedance 50 ohms, VSWR 2.0:1 max.
Mismatch Tolerance* 100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
Modulation Capability Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Harmonic Distortion Minus 20 dBc max. at 10 watts
Third Order Intercept Point 50 dBm typ.
Primary Power 90 - 132, 180 - 264 VAC
Connectors RF Input Type N female on front panel
RF Output Type N female on front panel
Remote Interfaces IEEE-488 24 pin female
Safety Interlock RS-232 9 pin Subminiature D female
Cooling 15 Pin Subminiature D female
Weight 20.5 kg (45 lb)
Size (WxHxD) 50.3 x 15.5 x 37.6 cm / 19.8 x 6.1 x 14.8 in
Rack Mountable

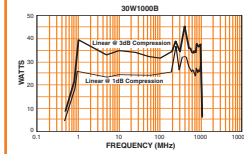


1 to 1000 MHz.



30 watts CW. 1-1000 MHz.

Rated Output Power 30 watts min.
Input For Rated Output 1.0 milliwatt max.
Power Output @ 3dB compression 30 watts / Min. 30 watts
Power Output @ 1dB compression 30 watts / Min. 20 watts
Flatness ±1.0 dB typ. / ±1.5 dB max.
Frequency Response 1 - 1000 MHz instantaneously
Gain (at max. setting) 45 dB min.
Gain Adjustment (continuous range) 20 dB min. (4096 steps remote)
Input Impedance 50 ohms, VSWR 2.0:1 max.
Output Impedance 50 ohms, VSWR 2.0:1 max.
Mismatch Tolerance* 100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
Modulation Capability Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Harmonic Distortion Minus 20 dBc max. at 25 watts
Third Order Intercept Point 52 dBm typ.
Primary Power 90 - 132, 180 - 264 VAC
Connectors RF Input Type N female on front panel
RF Output Type N female on front panel
Remote Interfaces IEEE-488 24 pin female
Safety Interlock RS-232 9 pin Subminiature D female
Cooling 15 Pin Subminiature D female
Weight 20.5 kg (45 lb)
Size (WxHxD) 50.3 x 15.5 x 37.6 cm / 19.8 x 6.1 x 14.8 in
Rack Mountable



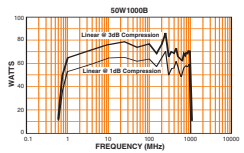
* See Application Note #27A at www.rfmco.com/appnote27/

1 to 1000 MHz.



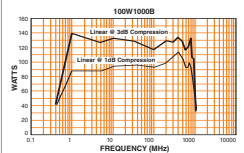
50 watts CW. 1-1000 MHz.

Rated Output Power 50 watts min.
Input For Rated Output 1.0 milliwatt max.
Power Output @ 3dB compression 1.0 milliwatt max.
 Nominal 70 watts / Min. 50 watts
Power Output @ 1dB compression 1.0 milliwatt max.
 Nominal 95 watts / Min. 40 watts
Flatness ±1.0 dB typ. / ±1.5 dB max.
Frequency Response 1 - 1000 MHz instantaneously
Gain (at max. setting) 47 dB min.
Gain Adjustment (continuous range) 20 dB min. (4096 steps remote)
Output Impedance 50 ohms, VSWR 2.0:1 max.
Mismatch Tolerance* 100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
Modulation Capability Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Harmonic Distortion Minus 20 dBc max. at 50 watts
Third Order Intercept Point 57 dBm typ.
Primary Power 90 - 132, 180 - 264 VAC
 50 / 60 Hz, single phase, 600 watts max.
Connectors RF Input Type N female on front panel
 RF Output Type N female on front panel
Remote Interfaces IEEE-488 24 pin female
 RS-232 9 pin Subminiature D female
Safety Interlock 15 pin Subminiature D female
Weight 25.9 kg (57 lb)
Size (WxHxD) 50.3 x 23.3 x 45.7 cm / 19.8 x 8 x 18.1 in
Rack Mountable



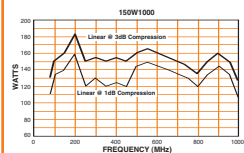
100 watts CW. 1-1000 MHz.

Rated Output Power 100 watts
Input For Rated Output 1.0 milliwatt max.
Power Output @ 3dB compression 1.0 milliwatt max.
 Nominal 123 watts / Min. 100 watts
Power Output @ 1dB compression 1.0 milliwatt max.
 Nominal 95 watts / Min. 75 watts
Flatness ±2.0 dB max. / 1.5 dB typ.
Frequency Response 1 - 1000 MHz instantaneously
Gain (at max. setting) 50 dB min.
Gain Adjustment (continuous range) 18 dB min. (4096 steps remote)
Output Impedance 50 ohms, VSWR 2.0:1 max.
Mismatch Tolerance* 100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
Modulation Capability Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Harmonic Distortion Minus 20 dBc max. at 80 watts
Third Order Intercept Point 58 dBm typ.
Primary Power 90 - 264 VAC
 47 / 60 Hz, single phase, 1200 watts max.
Connectors RF Input Type N female on front panel
 RF Output Type N female on front panel
Remote Interfaces IEEE-488 24 pin female
 RS-232 9 pin Subminiature D female
Safety Interlock 15 pin Subminiature D female
Weight 40 kg (88 lb)
Size (WxHxD) 50.3 x 24.9 x 53 cm / 19.8 x 9.8 x 21.1 in
Rack Mountable



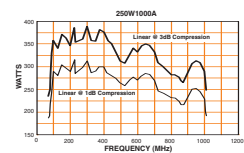
150 watts CW. 80-1000 MHz.

Rated Output Power 150 watts
Input For Rated Output 1.0 milliwatt max.
Power Output @ 3dB compression 1.0 milliwatt max.
 Nominal 140 watts / Min. 120 watts
Power Output @ 1dB compression 1.0 milliwatt max.
 Nominal 95 watts / Min. 100 watts
Flatness ±2.0 dB max. / 1.5 dB typ.
Frequency Response 80 - 1000 MHz instantaneously
Gain (at max. setting) 52 dB min.
Gain Adjustment (continuous range) 18 dB min. (4096 steps remote)
Output Impedance 50 ohms, VSWR 2.0:1 max.
Mismatch Tolerance* 100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
Modulation Capability Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Harmonic Distortion Minus 20 dBc max. at 100 watts
Third Order Intercept Point 58 dBm typ.
Primary Power 90 - 264 VAC
 40 / 400 Hz, single phase, 1200 watts max.
Connectors RF Input Type N female on front panel
 RF Output Type N female on front panel
Remote Interfaces IEEE-488 24 pin female
 RS-232 9 pin Subminiature D female
Safety Interlock 15 pin Subminiature D female
Weight 40 kg (88 lb)
Size (WxHxD) 50.3 x 24.9 x 53 cm / 19.8 x 9.8 x 21.1 in
Rack Mountable



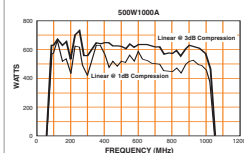
250 watts CW. 80-1000 MHz.

Rated Output Power 250 watts min.
Input For Rated Output 1.0 milliwatt max.
Power Output @ 3dB compression 1.0 milliwatt max.
 Nominal 310 watts / Min. 250 watts
Power Output @ 1dB compression 1.0 milliwatt max.
 Nominal 255 watts / Min. 200 watts
Flatness ±2.0 dB max. / ±1.5 dB typ.
Frequency Response 80 - 1000 MHz instantaneously
Gain (at max. setting) 54 dB min.
Gain Adjustment (continuous range) 18 dB min. (4096 steps remote)
Output Impedance 50 ohms, VSWR 2.0:1 max.
Mismatch Tolerance* 100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
Modulation Capability Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Harmonic Distortion Minus 20 dBc max. at 200 watts
Third Order Intercept Point 62 dBm typ.
Primary Power (user must specify) 120 - 240 VAC
 40 / 400 Hz, single phase, 2200 watts max.
Connectors RF Input Type N female on front panel
 RF Output Type N female on front panel
Remote Interfaces IEEE-488 24 pin female
 RS-232 9 pin Subminiature D female
Safety Interlock 15 pin Subminiature D female
Weight 88.2 kg (190 lb)
Size (WxHxD) 50.3 x 47 x 61 cm / 19.8 x 18.5 x 24 in
Rack Mountable



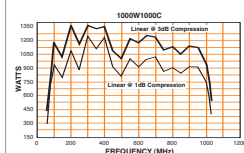
500 watts CW. 80-1000 MHz.

Rated Output Power 525 watts min.
Input For Rated Output 1.0 milliwatt max.
Power Output @ 3dB compression 1.0 milliwatt max.
 Nominal 612 watts / Min. 450 watts
Power Output @ 1dB compression 1.0 milliwatt max.
 Nominal 515 watts / Min. 350 watts
Flatness ±2.0 dB max. / ±0.8 dB with internal leveling
Frequency Response 80 - 1000 MHz instantaneously
Gain (at max. setting) 57 dB min.
Gain Adjustment (continuous range) 18 dB min.
Output Impedance 50 ohms, VSWR 2.0:1 max.
Mismatch Tolerance* 100% of rated power without foldback up to 6:0:1 mismatch above, which may limit to 250 watts reflected power. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
Modulation Capability Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Harmonic Distortion Minus 20 dBc max. at 400 watts
Third Order Intercept Point 63 dBm typ.
RF Power Display 0 - 600 watts full scale
Primary Power (user must specify) 200 - 240 VAC, 360 - 435 VAC, Wye Connected (3 wire)
 50 / 60 Hz, 3 phase, 12 kVA max.
Connectors RF Input Type N female on rear panel
 RF Output Type N female on rear panel
External Leveling Inputs Type BNC female on front panel
Pulse Modulation Input Type BNC female on front panel
Detected RF Output 15 pin Subminiature D on rear panel
Safety Interlock 15 pin Subminiature D on rear panel
Remote Computer Interface 24 pin IEEE-488 (GPIB) connector and RS-232 connector on rear panel
Remote Computer Interface (fiber optic) ST Conn Tx and Rx RS-232
Cooling Forced air (self contained fans)
Weight 174 kg (383 lb)
Size (WxHxD) 56.1 x 149.9 x 58.4 cm / 22.1 x 59 x 23 in
Rack Mountable



1000 watts CW. 80-1000 MHz.

Rated Output Power 1000 watts min.
Input For Rated Output 1.0 milliwatt max.
Power Output @ 3dB compression 1.0 milliwatt max.
 Nominal 1150 watts / Min. 850 watts
Power Output @ 1dB compression 1.0 milliwatt max.
 Nominal 920 watts / Min. 700 watts
Flatness ±2.0 dB max. / ±0.8 dB with internal leveling
Frequency Response 80 - 1000 MHz instantaneously
Gain (at max. setting) 60 dB min.
Gain Adjustment (continuous range) 18 dB min.
Output Impedance 50 ohms, VSWR 2.0:1 max.
Mismatch Tolerance* 100% of rated power without foldback up to 6:0:1 mismatch above, which may limit to 500 watts reflected power. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
Modulation Capability Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.
Harmonic Distortion Minus 20 dBc max. at 800 watts
Third Order Intercept Point 66 dBm typ.
RF Power Display 0 - 1200 watts full scale
Primary Power (user must specify) 200 - 240 VAC, Delta Connected (4 wire)
 360 - 435 VAC, Wye Connected (3 wire)
 50 / 60 Hz, 3 phase, 12 kVA max.
Connectors RF Input Type N female on rear panel
 RF Output Type N female on rear panel
External Leveling Inputs Type 7/16 female on rear panel
Pulse Modulation Input Type BNC female on front panel
Detected RF Output 15 pin Subminiature D on rear panel
Safety Interlock 15 pin Subminiature D on rear panel
Remote Computer Interface 24 pin IEEE-488 (GPIB) and RS-232 connectors on rear panel
Remote Computer Interface (fiber optic) ST Conn Tx and Rx RS-232
Safety Interlock 15 pin Subminiature D on rear panel
Cooling Forced air (self contained fans)
Weight 340 kg (750 lb)
Size (WxHxD) 68.8 x 152.5 x 82.5 cm / 27.1 x 60 x 32.5 in
Rack Mountable



* See Application Note #27A at www.nwrfm.com/appnote27/

80 to 1000 MHz.



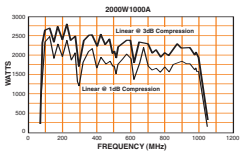
2000 watts CW. 80-1000 MHz.

Rated Output Power 1900 watts min.
Input For Rated Output 1.0 milliwatts max.
Power Output @ 3dB compression
 Nominal 2100 watts / Min. 1650 watts
Power Output @ 1dB compression
 Nominal 1750 watts / Min. 1300 watts
Flatness ±2.5 dB max. / ±0.8 dB with internal leveling
Frequency Response 80 - 1000 MHz instantaneously
Gain (at max. setting) 63 dB min.
Gain Adjustment (continuous range) 18 dB min.
Input Impedance 50 ohms, VSWR 2.0:1 max.
Output Impedance 50 ohms, nominal
Mismatch Tolerance*
 100% of rated power without foldback up to 6.0:1 mismatch above, which may limit to 950 watts reflected power. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.

Modulation Capability
 Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.

Harmonic Distortion Minus 20 dBc max. at 1500 watts
Third Order Intercept Point 70 dBm typ.
RF Power Display 0 - 2500 watts
Primary Power (user must specify)
 200 - 250 VAC, Delta Connected (4 wire)
 360 - 435 VAC, Wye Connected (5 wire)
 50 / 60 Hz, 3 phase, 24 kVA max.

Connectors
RF Input Type N female on rear panel
RF Output Type 1.58 EIA on rear panel
External Leveling Inputs Type BNC female on front panel
Pulse Modulation Input Type BNC female on front panel
Detected RF Output Type BNC female on front panel
Safety Interlock 15 pin female subminiature D on rear panel
Remote Computer Interface 24 pin female GPIB/IEEE-488 connector on rear panel
Remote Computer Interface (fiber optic) ST Conn Tx and Rx RS-232
Cooling Forced air (self contained fans)
Weight (approximate) 899 kg (1950 lb)
Size (WxHxD) (3 cabinets)
 201 x 158 x 160 cm / 79 x 62 x 63 in



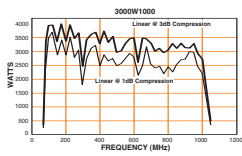
3000 watts CW. 80-1000 MHz.

Rated Output Power 2800 watts min.
Input For Rated Output 1.0 milliwatts max.
Power Output @ 3dB compression
 Nominal 3000 watts / Min. 2200 watts
Power Output @ 1dB compression
 Nominal 2500 watts / Min. 1750 watts
Flatness ±2.5 dB max. / ±0.8 dB with internal leveling
Frequency Response 80 - 1000 MHz instantaneously
Gain (at max. setting) 65 dB min.
Gain Adjustment (continuous range) 18 dB min.
Input Impedance 50 ohms, VSWR 2.0:1 max.
Output Impedance 50 ohms, nominal
Mismatch Tolerance*
 100% of rated power without foldback up to 6.0:1 mismatch above, which may limit to 1500 watts reflected power. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.

Modulation Capability
 Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.

Harmonic Distortion Minus 20 dBc max. at 2150 watts
Third Order Intercept Point 72 dBm typ.
RF Power Display 0 - 4500 watts
Primary Power (user must specify)
 200 - 250 VAC, Delta Connected (4 wire)
 360 - 435 VAC, Wye Connected (5 wire)
 50 / 60 Hz, 3 phase, 37 kVA max.

Connectors
RF Input Type N female on front panel
RF Output Type 1.58 EIA on rear panel
External Leveling Inputs Type BNC female on front panel
Pulse Modulation Input Type BNC female on front panel
Detected RF Output Type BNC female on front panel
Safety Interlock 15 pin female subminiature D on rear panel
Remote Computer Interface 24 pin female GPIB/IEEE-488 and 9 pin RS-232 connectors on rear panel
Remote Computer Interface (fiber optic) ST Conn Tx and Rx RS-232
Cooling Forced air (self contained fans)
Weight (approximate) 1453 kg (3225 lb)
Size (WxHxD) (4 cabinets)
 272 x 158 x 160 cm / 107 x 62 x 63 in



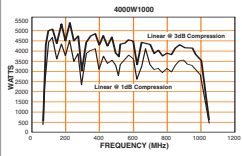
4000 watts CW. 80-1000 MHz.

Rated Output Power 3600 watts min.
Input For Rated Output 1.0 milliwatts max.
Power Output @ 3dB compression
 Nominal 4400 watts / Min. 2800 watts
Power Output @ 1dB compression
 Nominal 3400 watts / Min. 2200 watts
Flatness ±2.5 dB max. / ±0.8 dB with internal leveling
Frequency Response 80 - 1000 MHz instantaneously
Gain (at max. setting) 66 dB min.
Gain Adjustment (continuous range) 18 dB min.
Input Impedance 50 ohms, VSWR 2.0:1 max.
Output Impedance 50 ohms, nominal
Mismatch Tolerance*
 50% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.

Modulation Capability
 Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.

Harmonic Distortion Minus 20 dBc max. at 2800 watts
Third Order Intercept Point 73 dBm typ.
RF Power Display 0 - 6000 watts
Primary Power (user must specify)
 200 - 250 VAC, Delta Connected (4 wire)
 360 - 435 VAC, Wye Connected (5 wire)
 50 / 60 Hz, 3 phase, 48 kVA max.

Connectors
RF Input Type N female on front panel
RF Output Type 1.58 EIA on rear panel
External leveling inputs Type BNC female on front panel
Pulse modulation input Type BNC female on front panel
Detected RF output Type BNC female on front panel
Safety interlock 15 pin female subminiature D on rear panel
Remote Computer Interface 24 pin female GPIB/IEEE-488 and 9 pin RS-232 connectors on rear panel
Remote Computer Interface (fiber optic) ST Conn Tx and Rx RS-232
Cooling Forced air (self contained fans)
Weight (approximate) 1542 kg (3400 lb)
Size (WxHxD) (5 cabinets)
 340 x 158 x 161 cm / 134 x 62 x 64 in



DC to 1000 MHz.



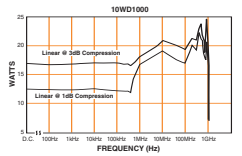
10 watts CW. dc-1000 MHz.

Rated Output Power 15 watts min.
Input For Rated Output 1.0 milliwatt max.
Power Output @ 3dB compression
 Nominal 19 watts / Min. 12.5 watts
Power Output @ 1dB compression
 Nominal 17 watts / Min. 10 watts
Flatness ±1.0 dB typ. / ±1.5 dB max.
Frequency Response DC - 1000 MHz (in two bands selected automatically manually or bus)
Gain 40 dB min.
Input Impedance 50 ohms, VSWR 2.0:1 max.
Output Impedance 50 ohms, nominal
Mismatch Tolerance*
 100% of rated output power. Will operate without damage or oscillation or foldback with any magnitude and phase of source and load impedance.

Modulation Capability
 Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.

Harmonic Distortion Minus 20 dBc max. at 10 watts
Third Order Intercept Point 50 dBm typ.
Primary Power 85 - 264 VAC
 47 - 440 Hz, 500 watts max.

Connectors
RF Input Type N female on front panel
RF Output Type N female on front panel
Remote Interfaces IEEE-488 24 pin female RS-232 9 pin Subminiature D female
Safety Interlock 15 Pin Subminiature D
Cooling Forced air (self contained fans)
Weight 21.5 kg (45 lb)
Size (WxHxD) 50.3 x 15.5 x 37.6 cm / 19.8 x 6.1 x 14.8 in
Rack Mountable



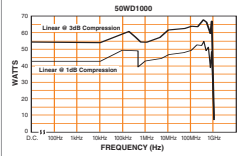
50 watts CW. dc-1000 MHz.

Rated Output Power 50 watts min.
Input For Rated Output 1.0 milliwatt max.
Power Output @ 3dB compression
 Nominal 60 watts / Min. 40 watts
Power Output @ 1dB compression
 Nominal 50 watts / Min. 30 watts
Flatness ±1.0 dB typ. / ±1.5 dB max.
Frequency Response dc - 1000 MHz (in two bands selected automatically or manually)
Gain 47 dB min.
Input Impedance 50 ohms, VSWR 2.0:1 max.
Output Impedance 50 ohms, nominal
Mismatch Tolerance*
 100% of rated output power. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.

Modulation Capability
 Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.

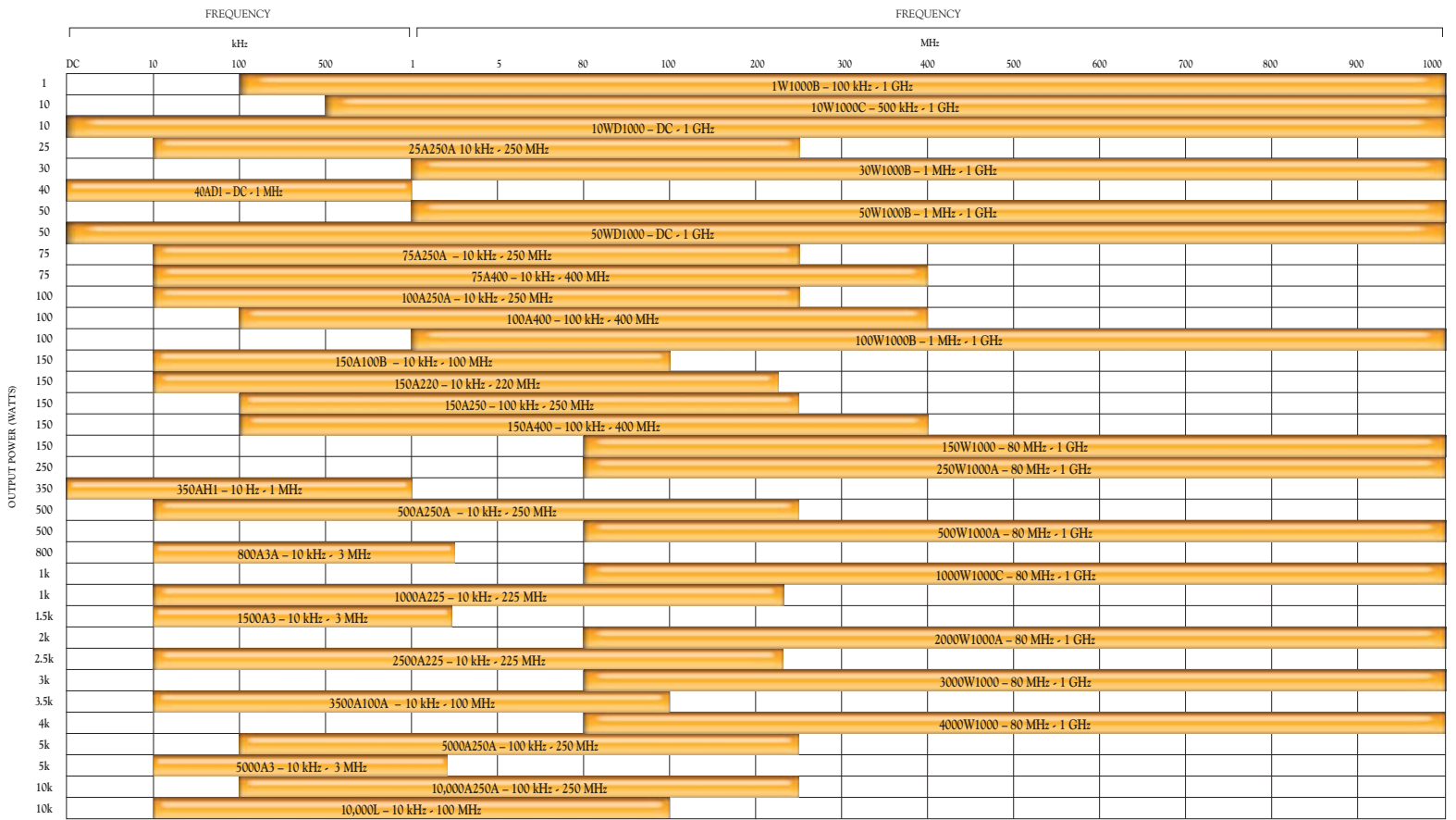
Harmonic Distortion Minus 20 dBc max. at 35 watts
Third Order Intercept Point 56 dBm typ.
Primary Power 90 - 132; 180 - 264 VAC
 50 / 60 Hz, single phase, 700 watts max.

Connectors
RF Input Type N female on front panel
RF Output Type N female on front panel
Remote Control 25 Pin Subminiature D on rear panel
Cooling Forced air (self contained fans)
Weight 29 kg (64 lb)
Size (WxHxD) 50.3 cm x 24.9 cm x 45.7 cm / 19.8 in x 9.8 in x 18 in
Rack Mountable



* See Application Note #27A at www.nw-infraco.com/appnote27/

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