



## Prana GN 500

- Class A solid state
- Broadband (instantaneous single band): 100 kHz – 200 MHz
- Frequency extension between 80 kHz to 250 MHz upon request (with limited specifications)
- Typical output power : 500 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
  - P1dB > 450 W and H < -20 dBc up to 100 MHz and
  - P1dB > 180 W and H < -20 dBc from 100 MHz to 200
- Air cooling: self contained fans
- Can operate in full mismatch conditions without damage
- Reliable, efficient and robust
- 19" Rack
- 3 years standard warranty

## Maintenance

- Amplifier designed for minimal maintenance
  - Easy access to all parts
  - Modular design
  - Repairs with minimum adjustments
- Rapid diagnostic
- Minimal downtime
- Contract for preventive and corrective maintenance available

## Applications

- EMC tests
- RF tests and instrumentation
- Radiocommunication
- Measurement and research laboratories

## Versions

- GN 500 D amplifier with:
  - Display
  - Digital control
  - IEEE 488 GPIB Communication
- GN 500 DC : GN 500 D with :
  - Integrated bidirectional coupler
  - display of instantaneous power

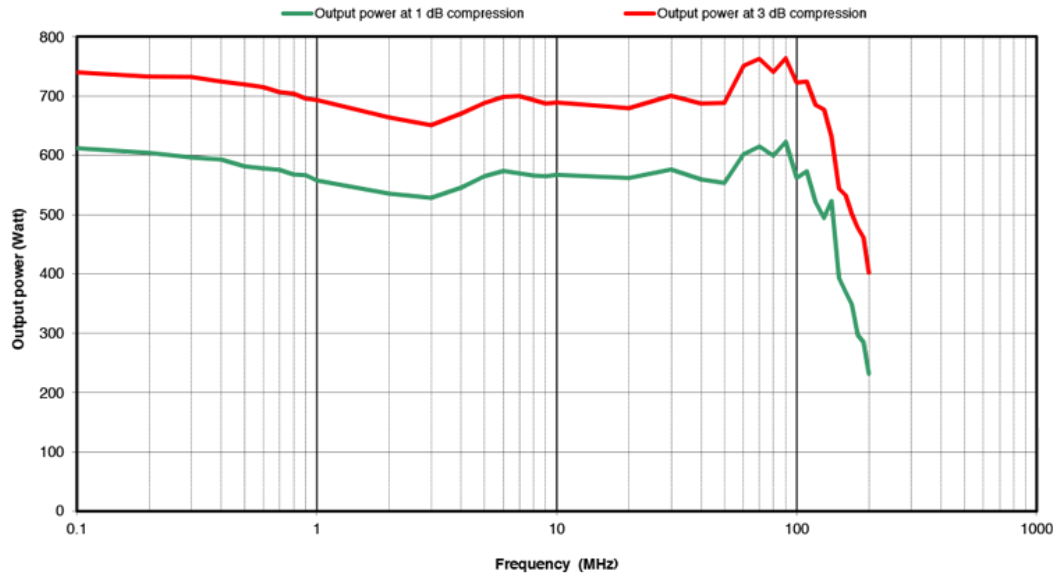
## GN Range

- GN 500 => 500 W CW
- GN 1000 => 1000 W CW
- GN 2000 => 2000 W CW
- GN 3500 => 3500 W CW
- GN 7000 => 7000 W CW
- GN 12000 => 12000 W CW

## Extra

- External coupler
- Supply and integration inside a cabinet
- Bulk Current Injection + Calibration JIG
- RF Power cable
- Switching unit

GN500 POWER AMPLIFIER 500W / 100 KHz - 200 MHz



## Specifications

Frequency bandwidth	100 kHz - 200 MHz (Frequency extension between 80 kHz to 250 MHz upon request)
Typical output power	500 W
Power at 3 dB compression	550 W min. up to 100 MHz / 280 W min. from 100 MHz to 200 MHz
Power at 1 dB compression	450 W min. up to 100 MHz / 180 W min. from 100 MHz to 200 MHz
Harmonics distortion	H2,H3 < -20 dBc for the output power at 1 dB compression limit
Class type	Class A
Gain	55 dB
Linear power gain flatness	± 3 dB max
Mismatch tolerance	infinite without damage
Input impedance	50 ohms / VSWR: 2:1 max
Output impedance	50 ohms / VSWR: 2:1 max
Input power	+10 dBm max.
RF input connector	Type N fem. (front or rear panel) – other connector type on request
RF output connector	Type N fem. (front or rear panel) – other connector type on request
Safety interlock	Connector type BNC
Digital control	Transistors, power supplies and internal temperature
Communication interface	IEEE 488, RS232
4 lines digital display	Status, faults, (direct and reverse instantaneous power for DC version)
Ambient operating temperature	0 °C / + 35 °C
Room temperature storage	-20 °C / +70 °C
Cooling	Forced air: 240 l/sec max. (self contained fans)
Power voltage	200-250 VAC, 47-63 Hz, single phase
Rated current	8.7 A at 230 VAC
Dimensions	640 x 840 x 312 mm (7U) / 25.2 x 33.1 x 12.3 in (7U)
Weight	44 kg / 97 lb

## GN 500 DC version :

Integrated bidirectional power coupler	Coupling factor 59 dB typ.
Power coupling connector	Type N fem. (rear panel)
Estimated output power losses due to the coupler	0.3 dB