



## Prana GN 2000

- 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 : 2000 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
  - P1dB > 1700 W and H<-20 dBc up to 100 MHz and
  - P1dB > 800 W and H<-20 dBc from 100 MHz to 200 MHz
- Air cooling: self contained fans
- Can operate in full mismatch conditions without damage
- Reliable, efficient and robust
- 19" Cabinet on wheels
- 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 2000 DC amplifier with:
  - Display
  - Digital control
  - IEEE 488 GPIB Communication
  - Integrated bidirectional coupler
  - display of instantaneous power

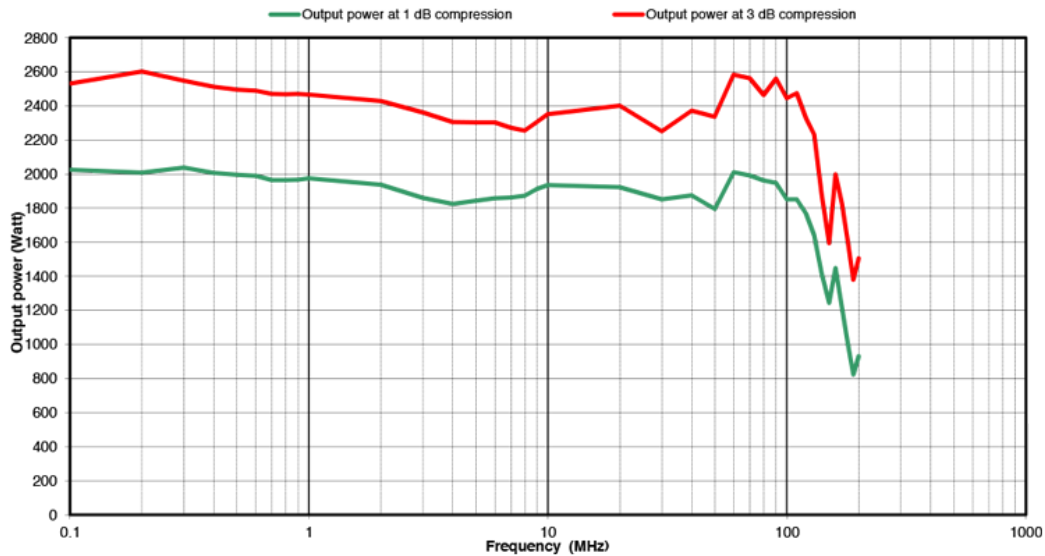
## GN Range

- 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
- Bulk Current Injection + Calibration JIG
- RF Power cable
- Switching unit

GN2000 POWER AMPLIFIER 2000W / 100 KHz - 200 MHz



## Specifications

Frequency bandwidth	100 kHz - 200 MHz (Frequency extension between 80 kHz to 250 MHz upon request)
Typical output power	2000 W
Power at 3 dB compression	2000 W min. up to 100 MHz / 1200 W min. from 100 MHz to 200 MHz
Power at 1 dB compression	1700 W min. up to 100 MHz / 800 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	60 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 7/16 fem. (front or rear panel) – other connector type on request
Power coupling connector	Type N fem. (front or rear panel)
Integrated bidirectional power coupler	Coupling factor 69 dB typ.
Safety interlock	Connector type BNC
Digital control	Transistors, power supplies and internal temperature
Mismatch protection	Self limitation for reflected power > 1500 W
Communication interface	IEEE 488
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)
Mains voltage	47-63 Hz, 3 phases (star or delta)
Rated current	7.2 kVA
Dimensions	600 x 840 x 1050 mm (18U) / 23.6 x 33.1 x 41.3 in (18U)
Weight	230 kg / 506 lb