PRÂNA

Broadband power amplifiers
Made in France

GN 1000

GN series: 100 kHz – 200 MHz
1000 W CW

www.prana-rd.com

Prana GN 1000:

- Class A solid state
- Broadband (instantaneous single band): 100 kHz – 200 MHz
- Typical output power : 1000 W CW
- Linear output power (1 dB compression) guaranted with harmonics <-20 dBc:
  - P1dB > 900 W and H < -20 dBc up to 100 MHz
  - P1dB > 400 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" 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 1000 D** amplifier with:
  - ⇨ Display
  - ⇨ Digital control
  - ⇨ IEEE 488 GPIB Communication

- **GN 1000 DC** : GN 1000 D with :
  - ⇨ Integrated bidirectional coupler
  - ⇨ display of instantaneous power

GN series:

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

Prana additional options:

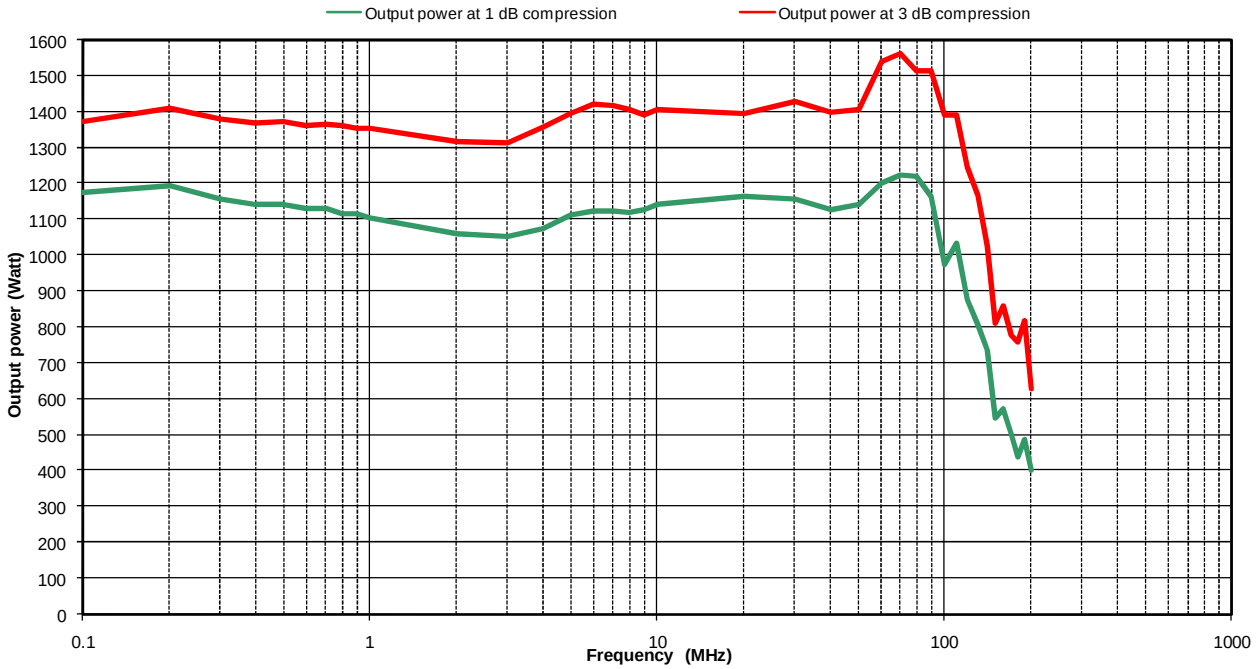
- External coupler
- Supply and integration inside a cabinet
- Bulk Current Injection + Calibration JIG
- RF Power cable
- Switching unit

Specifications

Frequency bandwidth	100 KHz - 200 MHz
Typical output power	1000 W
Power at 3 dB compression	1100 W min. up to 100 MHz / 600 W min. from 100 MHz to 200 MHz
Power at 1 dB compression	900 W min. up to 100 MHz / 400 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	63 dB
Linear power gain flatness	± 3 dB max
Mismatch tolerance	infinite without damage
Input impedance	50 ohms / VSWR: 2:1max
Output impedance	50 ohms / VSWR: 2:1max
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	3.5 kVA
Dimensions	600 x 840 x 360 mm (8U) / 23.6 x 33.1 x 14.2 in (8U)
Weight	73 kg / 161 lb

GN 1000 DC versions

Integrated bidirectional power coupler	Coupling factor 49 dB (DC version) ± 0.4 dB
Power coupling connector	Type N fem. (rear panel)
Estimated output power losses due to the coupler	0.3 dB



Electrical and Mechanical Specifications subject to change without notice.