

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) guaranteed 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

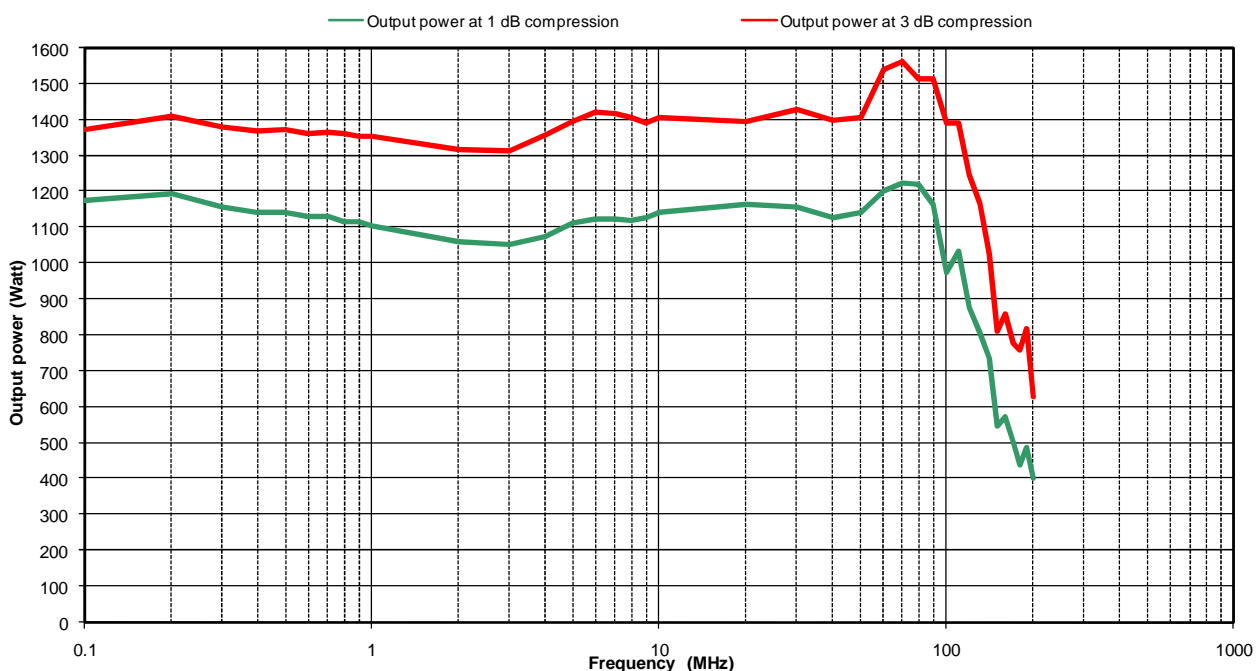


Specifications

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|------------------------------------|---|
| 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.