

GN 500

GN Range: 100 kHz - 200 MHz / 500 W CW



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:
 - Multicolor LCD display with touch panel
 - Digital control
 - IEEE 488 GPIB, Ethernet, USB, RS232 Communications
 - Temperature controlled fans
 - Safety interlock
- GN 500 DC : GN 500 D with :
 - Integrated dual directional coupler
 - Display of instantaneous incident and reflected power

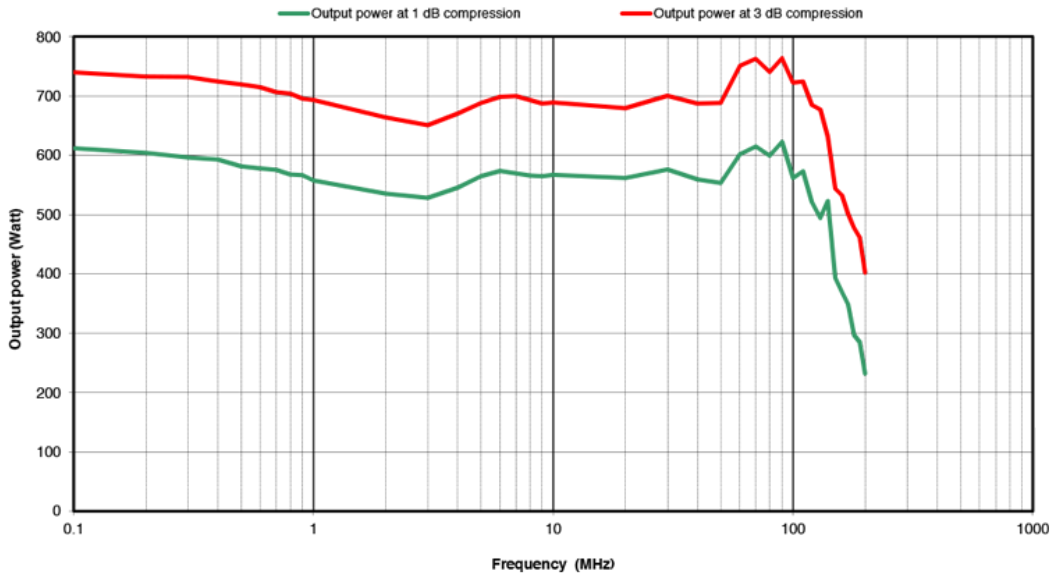
GN Range

- GN 40 => 40 W CW
- 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, temperatures and fans
Communication interfaces	Ethernet, USB, GPIB, RS232
Color LCD Display with touch screen	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 with fan speed control: 120 l/sec max. (self contained fans)
Power voltage	200-250 VAC, 47-63 Hz, single phase
Rated current	7.4 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