GN 12000

GN Range: 100 kHz - 200 MHz / 12000 W CW



Prana GN 12000

- 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 : 12000 W CW
- Linear output power (1 dB compression) guaranted with harmonics <-20 dBc: P1dB > 10000 W and H<-20 dBc up to 100 MHz and P1dB > 5000 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
- 3 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 12000 DC amplifier with:
  - Multicolor LCD display with touch panel
  - Digital control
  - IEEE 488 GPIB, Ethernet, USB, RS232 Communications
  - Temperature controlled fans
  - Safety interlock
  - 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

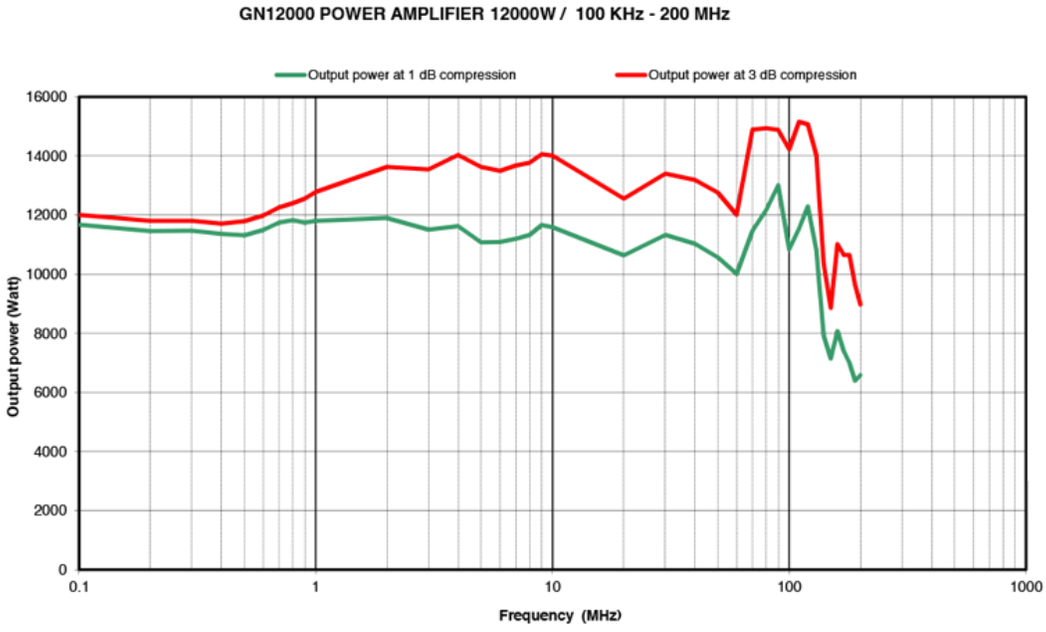
- External coupler
- Bulk Current Injection + Calibration JIG
- RF Power cable
- Switching unit

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Made in France

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Specifications

Frequency bandwidth	100 kHz - 200 MHz (Frequency extension between 80 kHz to 250 MHz upon request)
Typical output power	12000 W
Power at 3 dB compression	11000 W min. up to 100 MHz / 7000 W min. from 100 MHz to 200 MHz
Power at 1 dB compression	10000 W min. up to 100 MHz / 5000 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	68 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 EIA 1-5/8 (rear panel)
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, temperatures and fans
Mismatch protection	Self limitation for reflected power > 6000 W
Communication interface	Ethernet, USB, GPIB, RS232
Color LCD display with touch screen	Status, faults, direct and reverse instantaneous power
Ambient operating temperature	0 °C / + 35 °C
Room temperature storage	-20 °C / +70 °C
Cooling	Forced air with fan speed control: 3 x 960 l/sec max. (self contained fans)
Mains voltage	47-63 Hz, 3 phases (star or delta)
Rated current	51 kVA
Dimensions	2200 x 840 x 1950 mm (38U) / 86.6 x 33.1 x 76.8 in (38U)
Weight	3 x 450 kg / 3 x 992 lb

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