

Prana GN 12000:

- Class A solid state
- Broadband (instantaneous single band): 100 KHz – 200 MHz
- Typical output power : 12000 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
 - P1dB > 9000 W and H<-20 dBc up to 100 MHz
 - P1dB > 4000 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 cabinets 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

DC Version:

- **GN 12000 DC** Version including :
 - ⇒ Display
 - ⇒ Digital control
 - ⇒ IEEE 488 GPIB Communication
 - ⇒ Integrated bidirectional coupler
 - ⇒ display of instantaneous power

GN series:

- 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

Prana additional options:

- External coupler
- RF Power cable



Specifications

Frequency bandwidth.....	100 kHz - 200 MHz
Typical output power.....	12000 W
Power at 3 dB compression.....	12000 W min. up to 100 MHz/6000 W min from 100 MHz to 200 MHz
Power at 1 dB compression.....	9000 W min. up to 100 MHz /4000 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.....	65 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. (rear panel) – other connector type on request
RF output connector.....	Type EIA 1-5/8 (rear panel)
Integrated bidirectional power coupler.....	Coupling factor 69 dB ± 0.4 dB
Power coupling connector.....	Type N fem. (rear panel)
Safety interlock.....	Connector type BNC
Digital control.....	Transistors, power supplies and internal temperature
Mismatch protection.....	Self limitation for reflected power > 6000 W
Communication interface.....	IEEE 488
4 lines digital display.....	Status, faults, direct and reverse instantaneous power
Ambient operating temperature.....	0 °C / + 35 °C
Room temperature storage.....	-20 °C / +70 °C
Cooling.....	Forced air: 3 x 960 l/sec max. (self contained fans)
Mains voltage.....	47-63 Hz, 3 phases (star or delta)
Rated current.....	60 kVA
Dimensions.....	3 x (600 x 840 x 1950 mm) (38U) / 3 x (23.6 x 33.1 x 76.8 in) (38U)
Weight.....	3 x 450 kg / 3 x 992 lb



Electrical and Mechanical Specifications subject to change without notice.