

# DR 2000

DR Range: 10 kHz - 400 MHz / 2000 W CW



## Prana DR 2000

- Class A solid state
- Broadband (instantaneous single band): 10 kHz –400 MHz
- Typical output power : 2000 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
  - P1dB > 1500 W and H<-20 dBc up to 250 MHz and
  - P1dB > 1000 W and H<-20 dBc from 250 MHz to 400 MHz
- Air cooling: self contained fans
- Can operate in full mismatch conditions without damage
- Reliable, efficient and robust
- 22" 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

- DR 2000 DC amplifier with:
  - Display
  - Digital control
  - IEEE 488 GPIB Communication
  - Integrated bidirectional coupler
  - display of instantaneous power

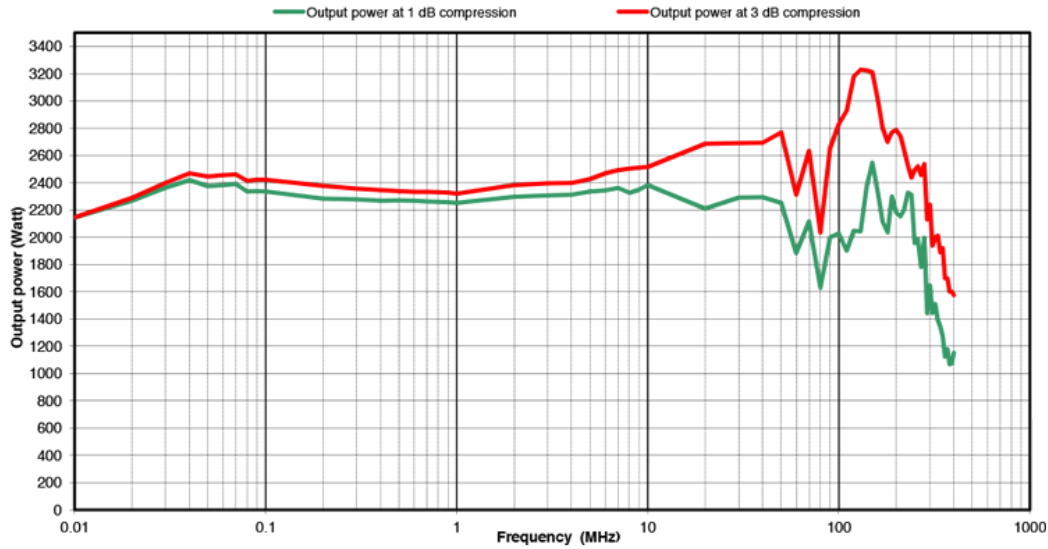
## DR Range

- DR 60 => 60 W CW
- DR 110 => 110 W CW
- DR 220 => 220 W CW
- DR 400 => 400 W CW
- DR 600 => 600 W CW
- DR 1200 => 1200 W CW
- DR 2000 => 2000 W CW

## Extra

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

DR2000 POWER AMPLIFIER 2000W / 10 KHz - 400MHz



## Specifications

Frequency bandwidth	10 kHz - 400 MHz
Typical output power	2000 W
Power at 3 dB compression	2000 W min. up to 250 MHz / 1500 W min. from 250 MHz to 400 MHz
Power at 1 dB compression	1500 W min. up to 250 MHz / 1000 W min. from 250 MHz to 400 MHz
Harmonics distortion	H2,H3 < -20 dBc for the output power at 1 dB compression limit
Class type	Class A
Gain	60 dB
Linear power gain flatness	± 2.5 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 7/16 fem. (front or rear panel) – other connector type on request
Integrated bidirectional power coupler	Coupling factor 69 dB typ.
Power coupling connector	Type N fem. (front or rear panel)
Safety interlock	Connector type BNC
Digital control	Transistors, power supplies and internal temperature
Mismatch protection	Self limitation for reflected power > 1000 W
Communication interface	IEEE 488
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: 960 l/sec max. (self contained fans)
Mains voltage	47-63 Hz, 3 phases (star or delta)
Rated current	21 kVA
Dimensions	800 x 840 x 2120 mm (42U) / 31.5 x 33.1 x 83.4 in (42U)
Weight	650 kg / 1 433 lb