

### Prana DP 500:

- Class A solid state
- Broadband (instantaneous single band): 10 kHz –250 MHz
- Typical output power : 500 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc: P1dB >350 W and H <-20 dBc
- 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:

- **DP 500 D** : standard amplifier with:
  - ⇒ Display
  - ⇒ Digital control
  - ⇒ IEEE 488 GPIB Communication
- **DP 500 DC** :DP 500 D with :
  - ⇒ Integrated bidirectional coupler
  - ⇒ display of instantaneous power

### DP series:

- DP 70 => 70 W CW
- DP 300 => 300 W CW
- DP 1000 => 1000 W CW
- DP 2200 => 2200 W CW
- DP 3500 => 3500 W CW

### Prana additional options:

- External coupler
- Supply and integration inside a cabinet
- Bulk Current Injection + Calibration JIG
- RF Power cable
- Switching unit



Photo: DP 500 D

### Specifications

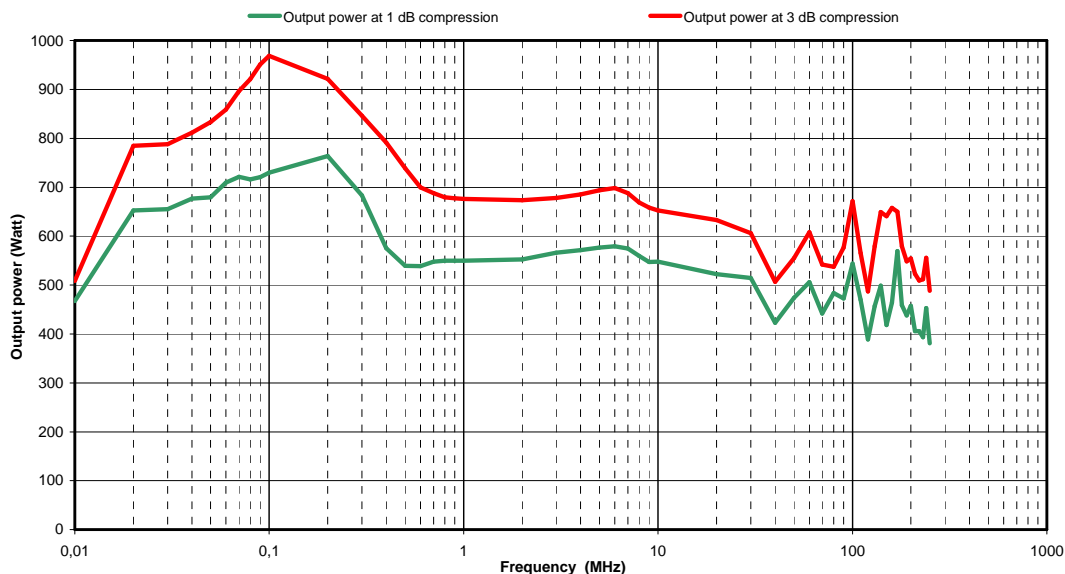
Frequency bandwidth	10 kHz - 250 MHz
Typical output power	500 W
Power at 3 dB compression	450 W min
Power at 1 dB compression	350 W min
Harmonics distortion	H2,H3 < -20 dBc for the output power at 1 dB compression limit
Class type	Class A
Gain	55 dB
Linear power gain flatness	± 2 dB max
Mismatch tolerance	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
Ambient operating temperature	0 °C / + 35 °C
Room temperature storage	-20 °C / + 70°C
Cooling	Forced air: 120 l/sec max. (self contained fans)
Power voltage	200-250 VAC, 47-63 Hz, single phase
Rated current	10.4 A at 230VAC
Dimensions	670 x 450 x 312 mm (7U) / 26.4 x 17.7 x 12.3 in (7U)
Weight	51 kg / 112 lb

### DP 500 D version

Safety interlock	Connector type BNC
Digital control	Transistors, power supplies and internal temperature
Communication interface	IEEE 488 or RS232
4 lines digital display	Status, faults, (direct and reverse instantaneous power for DC version)

### DP 500 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.