

### Prana DP 1000:

- Class A solid state
- Broadband (instantaneous single band): 10 kHz –250 MHz
- Typical output power : 1000 W CW
- Linear output power (1 dB compression) guaranteed with harmonics  $\leq -20$  dBc: P1dB>600 W and H $\leq -20$  dBc
- Air cooling: self contained fans
- Can operate in full mismatch conditions without damage
- Reliable, efficient and robust
- 19" 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

### DC version:

- **DP 1000 DC** version including :
  - ⇒ Display
  - ⇒ Digital control
  - ⇒ IEEE 488 GPIB Communication
  - ⇒ Integrated bidirectional coupler
  - ⇒ display of instantaneous power

### DP series:

- DP 70 => 70 W CW
- DP 300 => 300 W CW
- DP 500 => 500 W CW
- DP 2200 => 2200 W CW
- DP 3500 => 3500 W CW

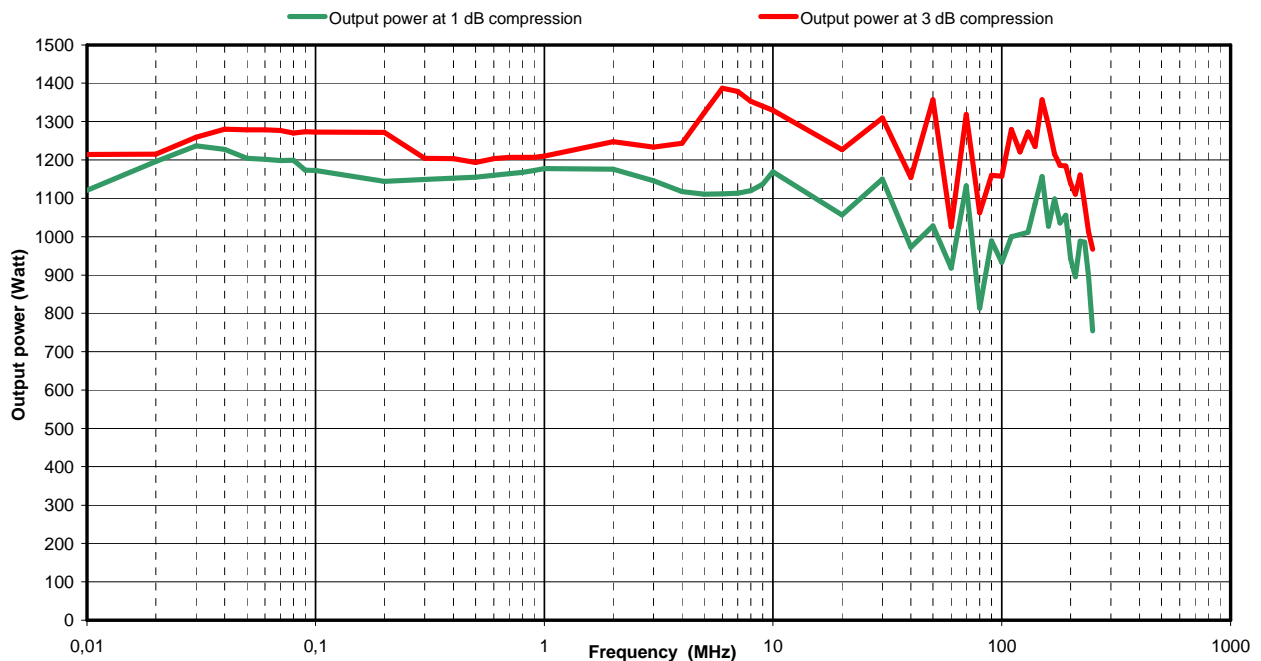
### Prana additional options:

- External coupler
- RF Power cable
- Switching unit



### Specifications

Frequency bandwidth.....	10 kHz - 250 MHz
Typical output power.....	1000 W
Power at 3 dB compression.....	900 W min
Power at 1 dB compression.....	700 W min
Harmonics distortion.....	H2,H3 < -20 dBc for the output power at 1 dB compression limit
Class type.....	Class A
Gain.....	64 dB
Linear power gain flatness.....	± 2.5 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 7/16 fem. (front or rear panel) – other connector type on request
Integrated bidirectional power coupler.....	Coupling factor 59 dB ± 0.5 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 > 800W
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: 240 l/sec max. (self contained fans)
Mains voltage.....	47-63 Hz, 3 phases (star or delta)
Rated current.....	5.4 kVA
Dimensions.....	600 x 840 x 1050 mm (18U) / 23.6 x 33.1 x 41.3 in (18U)
Weight.....	230 kg / 506 lb



Electrical and Mechanical Specifications subject to change without notice.