

Prana DP 3500:

- Class A solid state
- Broadband (instantaneous single band): 10 kHz –250 MHz
- Typical output power : 3500 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
 - P1dB > 2500 W and H<-20 dBc up to 100 MHz
 - P1dB > 2000 W and H<-20 dBc from 100 MHz to 250 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

DC versions

- **DP 3500 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 1000 => 1000 W CW
- DP 2200 => 2200 W CW

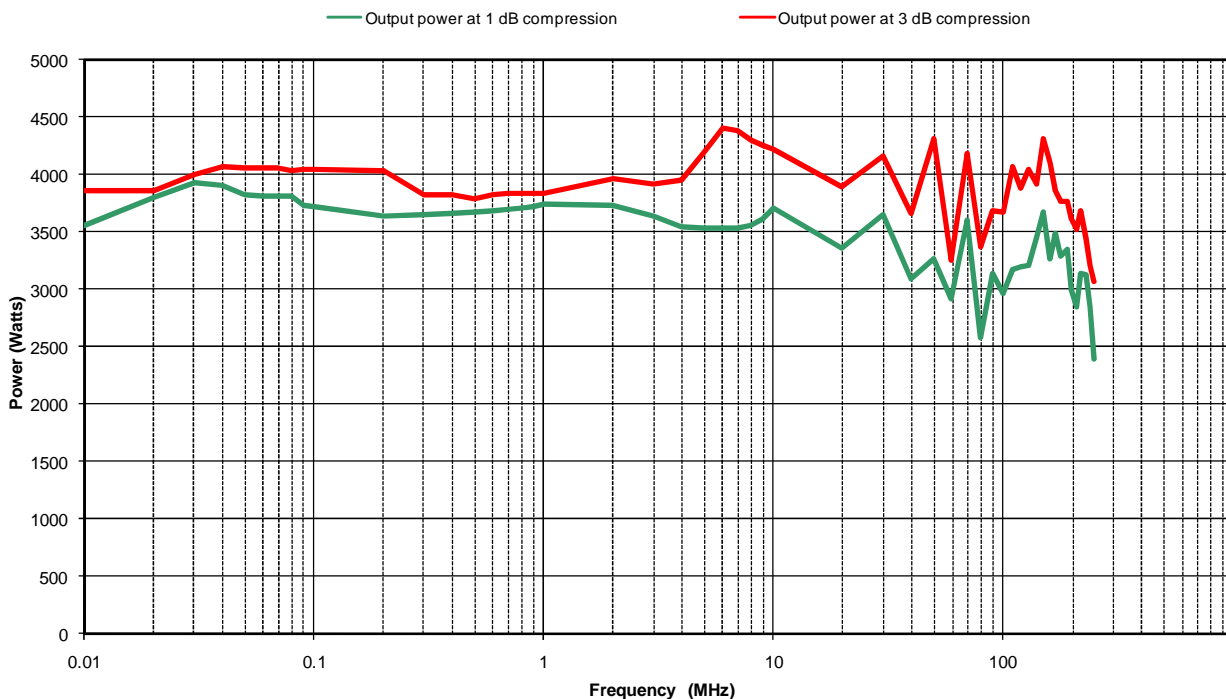
Prana additional options:

- External coupler
- RF Power cable
- Switching unit



Specifications

Frequency bandwidth.....	10 kHz - 250 MHz
Typical output power.....	3500 W
Power at 3 dB compression.....	3000W min up to 100MHz / 2500W min from 100 MHz to 250MHz
Power at 1 dB compression.....	2500W min up to 100MHz / 2000W min from 100 MHz to 250MHz
Harmonics distortion.....	H2,H3 < -20 dBc for the output power at 1 dB compression limit
Class type.....	Class A
Gain.....	67 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 ± 0.4 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 > 2000 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: 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 / 1433 lb



Electrical and Mechanical Specifications subject to change without notice.