

### Prana DP 300:

- Class A solid state
- Broadband (instantaneous single band): 10 kHz –250 MHz
- Typical output power : 300 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc: P1dB>200 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 300 S** : standard amplifier
- **DP 300 D** : standard amplifier with:
  - ⇒ Display
  - ⇒ Digital control
  - ⇒ IEEE 488 GPIB Communication
- **DP 300 SC** : DP 300 S with :
  - ⇒ Integrated bidirectional coupler
- **DP 300 DC** :DP 300 D with :
  - ⇒ Integrated bidirectional coupler
  - ⇒ display of instantaneous power

### DP series:

- DP 70 => 70 W CW
- DP 500 => 500 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 300 D

### Specifications

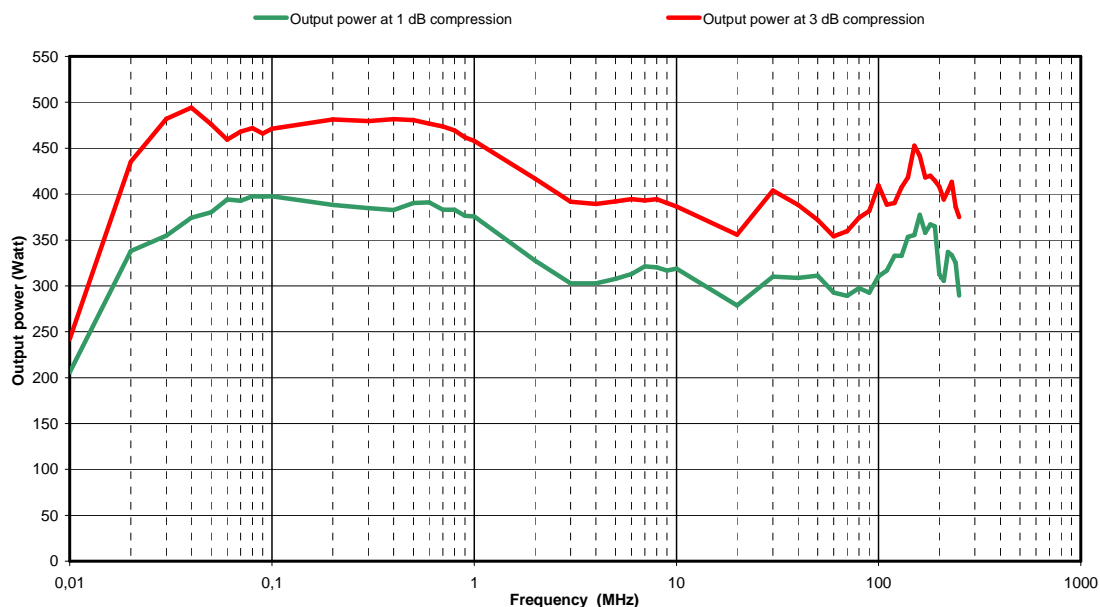
Frequency bandwidth.....	10 kHz - 250 MHz
Typical output power.....	300 W
Power at 3 dB compression.....	250 W min
Power at 1 dB compression.....	200 W min
Harmonics distortion.....	H2,H3 < -20 dBc for the output power at 1dB compression limit
Class type.....	Class A
Gain.....	53 dB
Linear power gain 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 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: 60 l/sec max. (self contained fans)
Power voltage.....	90-250 VAC, 47-63 Hz, single phase
Rated current.....	13.2 A at 110 VAC / 6.3 A at 230 VAC
Dimensions.....	630 x 450 x 178 mm (4U) / 24.8 x 17.7 x 7 in (4U)
Weight.....	35 kg / 77 lb

### DP 300 D version

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

### DP 300 SC and DP 300 DC versions

Integrated bidirectional power coupler.....	Coupling factor 40 dB (SC version) / 49 dB (DC version) ± 0.4 dB
Power coupling connector.....	Type N fem. (front or rear panel)
Estimated output power losses due to the coupler.....	0.3 dB



Electrical and Mechanical Specifications subject to change without notice.