

# DP 1300

DP Range: 10 kHz - 250 MHz / 1300 W CW



## Prana DP 1300

- Class A solid state
- Broadband (instantaneous single band): 10 kHz – 250 MHz
- Typical output power : 1300 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
  - P1dB>1000 W and H<-20 dBc up to 100 MHz
  - P1dB>700 W and H<-20 dBc between 100 MHz and 250 MHz
- 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

## Versions

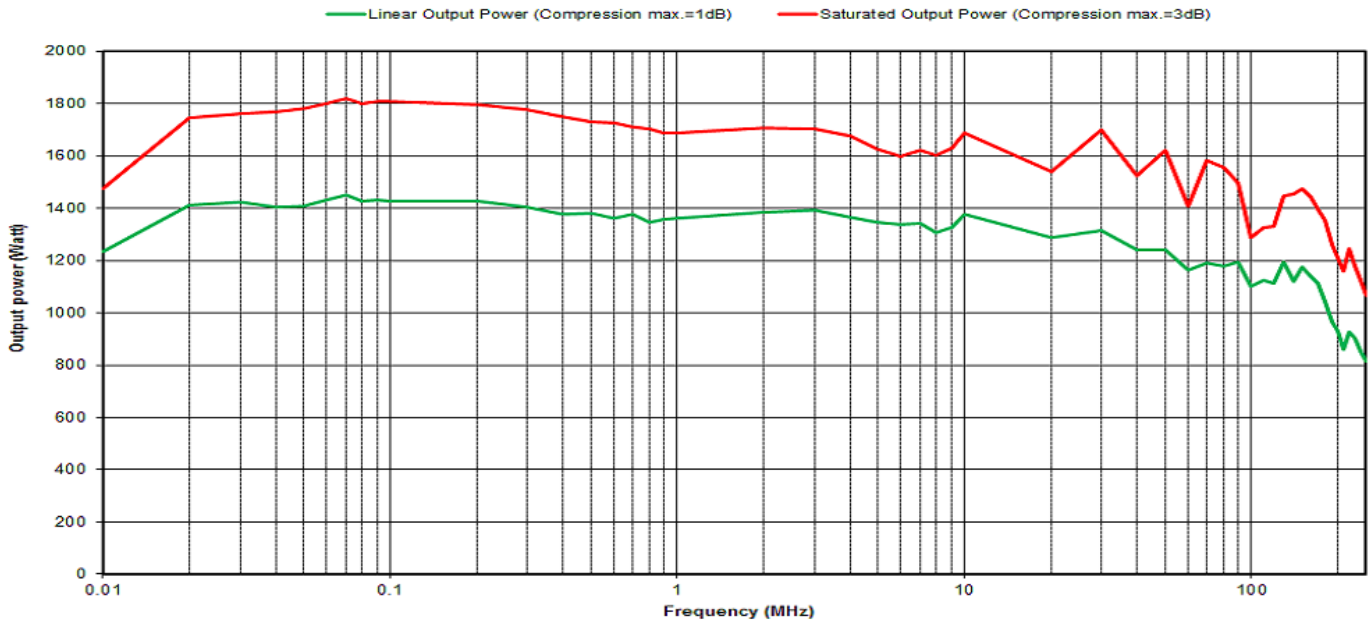
- DP 1300 DC amplifier with:
  - Display
  - Digital control
  - IEEE 488 GPIB Communication
  - Integrated bidirectional coupler
  - display of instantaneous power

## DP Range

- DP 70 => 70 W CW
- DP 140 => 140 W CW
- DP 300 => 300 W CW
- DP 600 => 600 W CW
- DP 1300 => 1300 W CW
- DP 2500 => 2500 W CW
- DP 5000 => 5000 W CW

## Extra

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



## Specifications

Frequency bandwidth	10 kHz - 250 MHz
Typical output power	1300 W
Power at 3 dB compression	1200 W min. up to 100 MHz / 900 W min. from 100 MHz to 250 MHz
Power at 1 dB compression	1000 W min. up to 100 MHz / 700 W min. from 100 MHz to 250 MHz
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: 2:1 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 59 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 > 800 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: 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