

# DT 800

DT Range: 10 kHz - 1000 MHz / 800 W CW



## Prana DT 800

- Class A solid state
- Broadband (dual instantaneous band):
  - 10 kHz – 200 MHz and
  - 200 MHz - 1000 MHz
- Typical output power : 800 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
  - P1dB > 700 W and H < -20 dBc up to 200 MHz and
  - P1dB > 400 W and H < -20 dBc from 200 MHz to 1000 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

- DT 800 DC amplifier with:
  - Integrated dual directional coupler
  - Display of instantaneous incident and reflected power

## DT Range

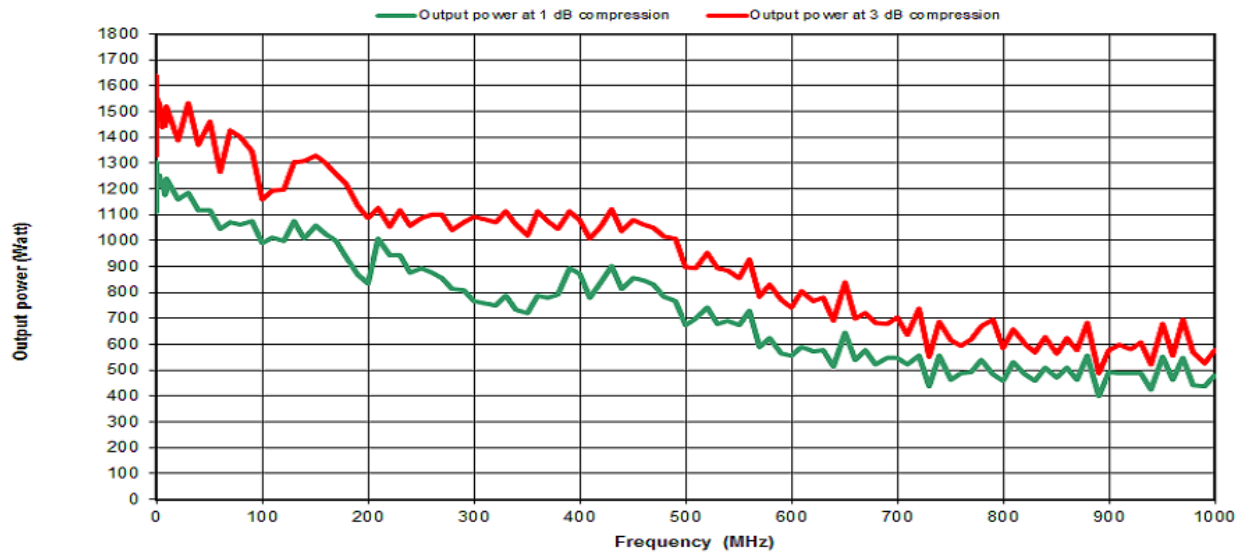
- DT 25 => 25 W CW
- DT 70 => 70 W CW
- DT 150 => 150 W CW
- DT 260 => 260 W CW
- DT 800 => 800 W CW

## Extra

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



## DT800 POWER AMPLIFIER 800W / 10 kHz - 1000MHz



### Specifications

Frequency bandwidth	10 kHz - 200 MHz / 200 MHz – 1000 MHz
Typical output power	800 W
Power at 3 dB compression	900 W min. up to 200 MHz / 450 W min. from 200 MHz to 1000 MHz
Power at 1 dB compression	700 W min. up to 200 MHz / 400 W min. from 200 MHz to 1000 MHz
Harmonics distortion	H2,H3 < -20 dBc for the output power at 1 dB compression limit
Class type	Class A
Gain	56 dB
Linear power gain flatness	± 3.5 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 2 bidirectional power couplers	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 > 500 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: 480 l/sec max. (self contained fans)
Mains voltage	47-63 Hz, 3 phases (star or delta)
Rated current	5 kVA
Dimensions	600 x 840 x 1500 mm (30U) / 23.6 x 33.1 x 59.1 in (28U)
Weight	360 kg / 794 lb