

# DT 25

DT Range: 10 kHz - 1000 MHz / 25 W CW



## Prana DT 25

- Class A solid state
- Broadband (instantaneous single band): 10 kHz – 1000 MHz
- Typical output power : 25 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
  - P1dB > 20 W and H<-20 dBc up to 450 MHz and
  - P1dB > 10 W and H<-20 dBc from 450 MHz to 1000 MHz
- 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

- DT 25 S : standard amplifier
- DT 25 D amplifier with:
  - Display
  - Digital control
  - IEEE 488 GPIB Communication
- DT 25 SC : DT 25 S with
  - Integrated bidirectional coupler
- DT 25 DC : DT 25 D with :
  - Integrated bidirectional coupler
  - display of instantaneous power

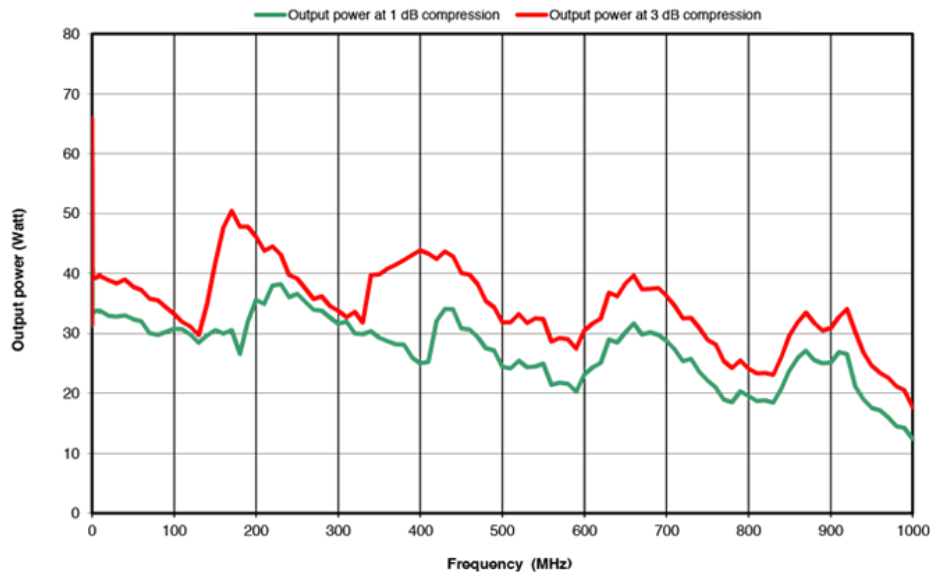
## DT Range

- 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
- Supply and integration inside a cabinet
- Bulk Current Injection + Calibration JIG
- RF Power cable
- Switching unit

DT25 POWER AMPLIFIER 25W / 10 kHz - 1000 MHz



## Specifications

Frequency bandwidth	10 kHz - 1000 MHz
Typical output power	25 W
Power at 3 dB compression	25 W min up to 450 MHz / 12 W min from 450 MHz to 1000 MHz
Power at 1 dB compression	20 W min up to 450 MHz / 10 W min from 450 MHz to 1000 MHz
Harmonics distortion	H2,H3 < -20 dBc for the output power at 1 dB compression limit
Class type	Class A
Gain	42 dB
Linear power gain flatness	± 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 panel) – other connector type on request
RF output connector	Type N fem. (front panel) – other connector type on request
Ambient operating temperature	0 °C / + 35 °C
Room temperature storage	-20 °C / +70 °C
Cooling	Forced air: 20 l/sec max. (self contained fans)
Power voltage	90-250 VAC, 47-63 Hz, single phase
Rated current	2.5 A at 110 VAC / 1.2 A at 230 VAC
Dimensions	640 x 450 x 89 mm (2U) / 25.2 x 17.7 x 3.5 in (2U)
Weight	12 kg / 26.5 lb

## DT 25 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)

## DT 25 SC and DT 25 DC versions :

Integrated bidirectional power coupler	Coupling factor 40 dB typ. (SC version) / 49 dB typ. (DC version)
Power coupling connector	Type N fem. (rear panel)
Estimated output power losses due to the coupler	0.6 dB