

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
 - 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 year 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** : standard 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 series:

- DT 75 => 75 W CW
- DT 150 => 150 W CW
- DT 600 => 600 W CW

Prana additional options:

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



Photo: DT 25 D

Specifications

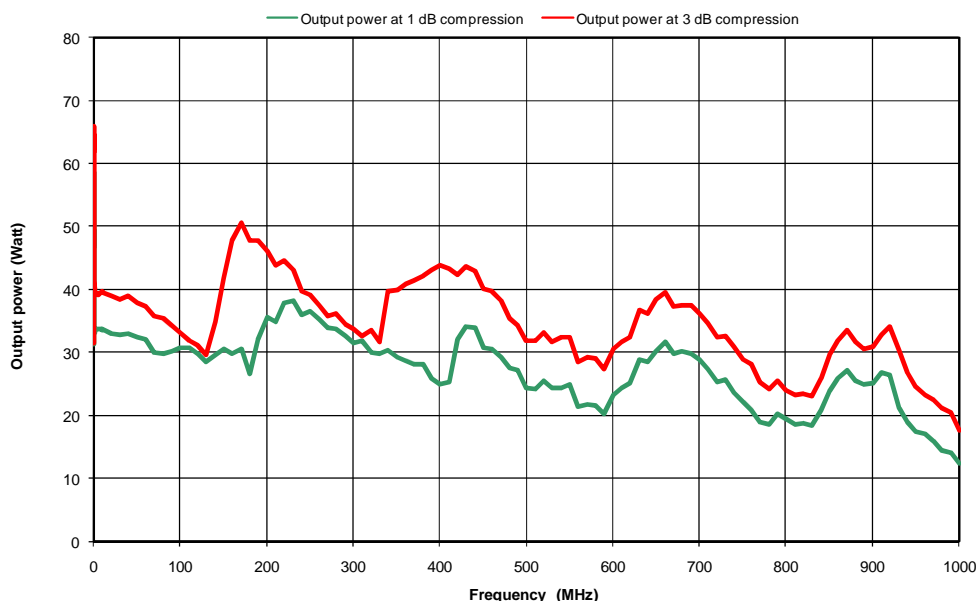
Frequency bandwidth.....	10 KHz - 1000 MHz
Typical output power.....	25 W
Power at 3 dB compression.....	25 W min up to 450 MHz / 12 W min from 450 MHz to 1000 MHz
Power at 1 dB compression.....	20 W min up to 450 MHz / 10 W min from 450 MHz to 1000 MHz
Harmonics distortion.....	H2,H3 < 20 dBc for the output power at 1 dB compression limit
Class type.....	Class A
Gain.....	42 dB
Linear power gain flatness.....	± 3 dB max.
Mismatch tolerance.....	infinite without damage
Input impedance.....	50 ohms / VSWR: 2.5:1max
Output impedance.....	50 ohms / VSWR: 2.5:1max
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 (SC version) / 49 dB (DC version) ± 0.8 dB
Power coupling connector.....	Type N fem. (rear panel)
Estimated output power losses due to the coupler.....	0.3 dB



Electrical and Mechanical Specifications subject to change without notice.