

### Prana DT 600:

- Class A solid state
- Broadband (dual instantaneous band):
  - 10 kHz – 80 MHz.
  - 80 MHz – 1000 MHz
- Typical output power : 600 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
  - P1dB > 500 W and H < -20 dBc up to 500 MHz
  - P1dB > 400 W and H < -20 dBc from 500 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

### DC Version:

- **DT 600 DC** version including:
  - ⇒ Display
  - ⇒ Digital control
  - ⇒ IEEE 488 GPIB Communication
  - ⇒ Integrated bidirectional coupler
  - ⇒ display of instantaneous power

### DT series:

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

### Prana additional options:

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



### Specifications

Frequency bandwidth.....	10 kHz - 80 MHz / 80 MHz – 1000 MHz
Typical output power.....	600 W
Power at 3 dB compression.....	600 W min. up to 500 MHz / 500 W min. from 500 MHz to 1000 MHz
Power at 1 dB compression.....	500 W min. up to 500 MHz / 400 W min. from 500 MHz to 1000 MHz
Harmonics distortion.....	H2,H3 < -20 dBc for output power at 1dB compression
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 7/16 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
Integrated 2 bidirectional power couplers.....	Coupling factor 59 dB ± 0.8 dB
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
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 (28U) / 23.6 x 33.1 x 59.1 in (28U)
Weight.....	360 kg / 794 lb

