

Prana DT 70:

- Class A solid state
- Broadband (instantaneous single band): 10 kHz – 1000 MHz
- Typical output power : 70 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
 - P1dB > 50 W and H<-20 dBc up to 500 MHz
 - P1dB > 30 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" 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 70 S** : standard amplifier
- **DT 70 D** : standard amplifier with:
 - ⇒ Display
 - ⇒ Digital control
 - ⇒ IEEE 488 GPIB Communication
- **DT 70 SC** : DT 70 S with :
 - ⇒ Integrated bidirectional coupler
- **DT 70 DC** :DT 70 D with :
 - ⇒ Integrated bidirectional coupler
 - ⇒ display of instantaneous power

DT series:

- DT 25 => 25 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 70 D

Specifications

Frequency bandwidth.....	10 kHz - 1000 MHz
Typical output power.....	70 W
Power at 3 dB compression.....	60 W min up to 500 MHz / 40 W min from 500 MHz to 1000 MHz
Power at 1 dB compression.....	50 W min up to 500 MHz / 30 W min from 500 MHz to 1000 MHz
Harmonics distortion.....	H2,H3 < 20 dBc for the output power at 1 dB compression limit
Class type.....	Class A
Gain.....	48 dB
Linear power gain flatness.....	± 4.5 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 or rear panel) – other connector type on request
RF output connector.....	Type N fem. (front or rear panel) – other connector type on request
Ambient operating temperature.....	0 °C / + 35 °C
Room temperature storage.....	-20 °C / +70 °C
Cooling.....	Forced air: 60 l/sec max. (self contained fans)
Power voltage.....	90-250 VAC, 47-63 Hz, single phase
Rated current.....	8.1 A at 110 VAC / 3.5 A at 230 VAC
Dimensions.....	630 x 450 x 178 mm (4U) / 24.8 x 17.7 x 7 in (4U)
Weight.....	33 kg / 77 lb

DT70 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)

DT70 SC and DT70 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. (front or rear panel)
Estimated output power losses due to the coupler.....	0.3 dB

