

### Prana MT 700:

- Class A solid state
- Broadband (instantaneous single band) : 80 MHz – 1000 MHz
- Typical output power : 700 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
  - P1dB > 600 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
- Upgradable to MT 1200 possible (30U)
- Reliable, efficient and robust
- 19" Cabinet
- 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

### DC version:

MT 700 DC Version including:

- ⇒ Display
- ⇒ Digital control
- ⇒ IEEE 488 GPIB communication
- ⇒ Integrated bidirectional coupler
- ⇒ Display of instantaneous power

### MT series:

- MT 100 => 100 W CW
- MT 200 => 200 W CW
- MT 400 => 400 W CW
- MT 1200 => 1200 W CW
- MT 1400 => 1400 W CW
- MT 1700 => 1700 W CW
- MT 2000 => 2000 W CW
- MT 2800 => 2800 W CW

### Prana additional options:

- External coupler
- RF power cable
- Switching unit



### Specifications

Frequency bandwidth.....	80 MHz - 1000 MHz
Typical output power.....	700 W
Power at 3 dB compression.....	700 W min up to 500 MHz / 500 W min from 500 MHz to 1000 MHz
Power at 1 dB compression.....	600 W min up to 500 MHz / 400 W min from 500 MHz to 1000 MHz
Harmonic 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: 2.5:1max
Output impedance.....	50 ohms / VSWR: 2.5:1max
Maximum input level.....	+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
Bidirectional power coupler integrated .....	Coupling factor 59 dB ± 0.4 dB
Power coupling connectors.....	Type N fem. (front or rear panel)
Security interlock.....	Connector type BNC
Digital control.....	Transistors, power supplies and internal temperature
Mismatch protection.....	Self limitation for reflected power > 600 W
Communication interface.....	IEEE 488 GPIB
Digital display 4 lines .....	Status, faults, instantaneous and reflected power
Ambient operating temperature.....	0 °C / + 35 °C
Room temperature storage.....	-20 °C / +70 °C
Cooling .....	Forced air: 240 l/sec max. (self contained fans)
Mains voltage.....	47-63 Hz, 3 phases (star or delta)
Power in.....	4.6 KVA
Dimensions.....	.840 x 600 x 1320 mm (24U) / 33.1 x 23.6 x 52 in (24U)
Weight.....	240 kg / 529 lb

