

MT 700

MT Range: 80 MHz - 1000 MHz / 700 W CW



Prana MT 700

- Class A solid state
- Broadband (instantaneous single band): 80 MHz – 1000 MHz
- Typical output power : 700 W CW
- Linear output power guaranteed with harmonics < -20 dBc
- Air cooling: self contained fans
- Can operate in full mismatch conditions without damage
- Upgradable to MT 1200 possible (30U)
- 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

Versions

- MT 700 DC amplifier with:
 - Multicolor LCD display with touch panel
 - Digital control
 - IEEE 488 GPIB, Ethernet, USB, RS232 communications
 - Temperature controlled fans
 - Safety interlock
 - Integrated dual directional coupler
 - Display of instantaneous incident and reflected power

MT Range

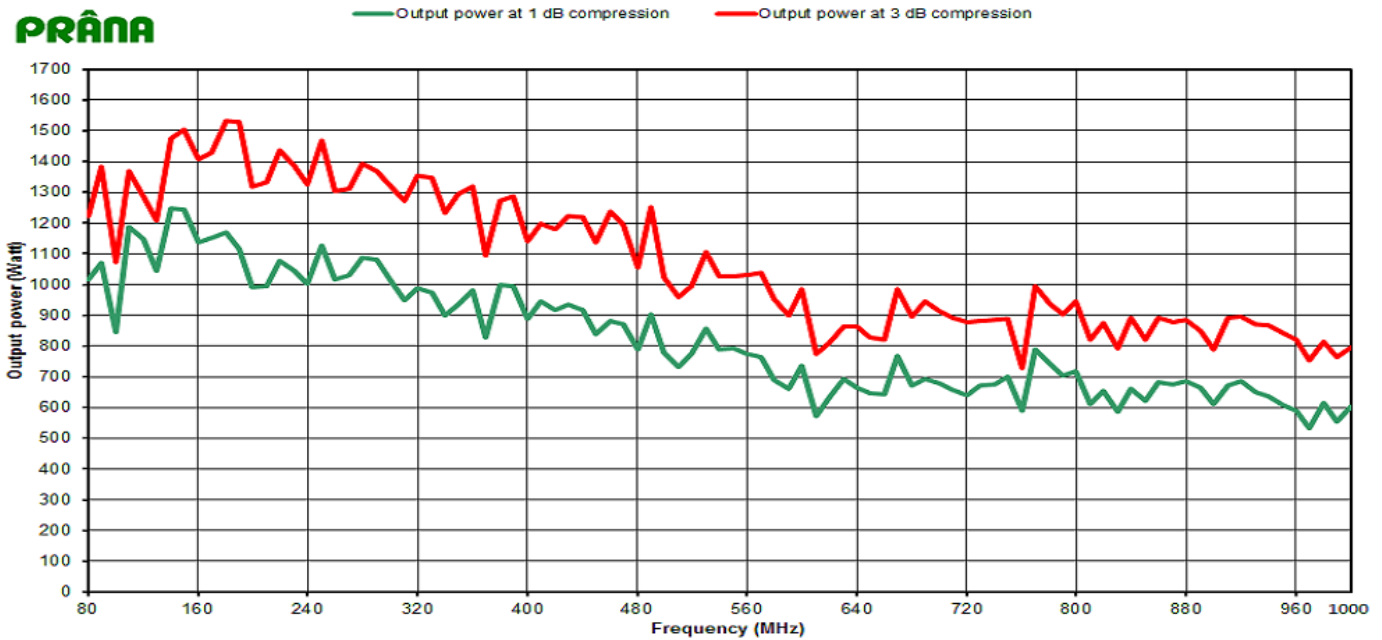
- MT 100 => 100 W CW
- MT 200 => 200 W CW
- MT 400 => 400 W CW
- MT 700 => 700 W CW
- MT 1200 => 1200 W CW
- MT 1400 => 1400 W CW
- MT 1700 => 1700 W CW
- MT 2000 => 2000 W CW
- MT 3500 => 3500 W CW

Extra

- External coupler
- RF Power cable
- Switching unit

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Specifications

| | |
|--|--|
| Frequency bandwidth | 80 MHz - 1000 MHz |
| Typical output power | 700 W |
| Power at 3 dB compression | 900 W min up to 450 MHz / 600 W min from 450 MHz to 1000 MHz |
| Power at 1 dB compression | 700 W min up to 450 MHz / 450 W min from 450 MHz to 1000 MHz |
| Harmonics distortion | H2,H3 < -20 dBc for the output power at 1 dB 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: 2:1 max |
| Output impedance | 50 ohms / VSWR: 2:1 max |
| Input power | +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 |
| Integrated bidirectional power coupler | Coupling factor 59 dB typ. |
| Power coupling connector | Type N fem. (front or rear panel) |
| Safety interlock | Connector type BNC |
| Digital control | Transistors, power supplies, temperatures and fans |
| Mismatch protection | Self limitation for reflected power > 450 W |
| Communication interface | Ethernet, USB, GPIB, RS232 |
| Color LCD display with touch screen | Status, faults, direct and reverse instantaneous power |
| Ambient operating temperature | 0 °C / + 45 °C |
| Room temperature storage | -20 °C / +70 °C |
| Cooling | Forced air with fan speed control: 240 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 1320 mm (24U) / 23.6 x 33.1 x 51.9 in (24U) |
| Weight | 199 kg / 438 lb |

MT70014MAY2019 - Electrical and Mechanical Specifications subject to change without notice.