

MT 2400

MT Range: 80 MHz - 1000 MHz / 2400 W CW



Prana MT 2400

- Class A solid state
- Broadband (instantaneous single band): 80 MHz – 1000 MHz
- Typical output power : 2400 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 3500 possible (3x32U)
- Reliable, efficient and robust
- 22" 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 2400 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

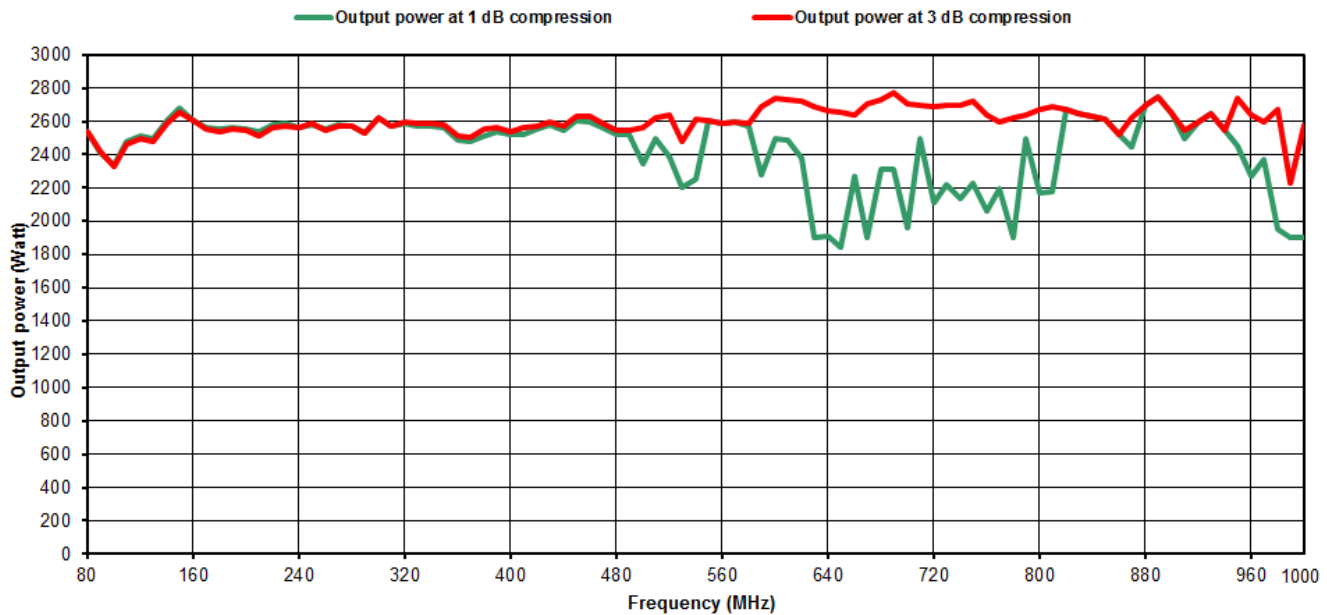
- MT 140 => 140 W CW
- MT 250 => 250 W CW
- MT 500 => 500 W CW
- MT 900 => 900 W CW
- MT 1450 => 1450 W CW
- MT 1650 => 1650 W CW
- MT 2400 => 2400 W CW
- MT 3500 => 3500 W CW

Extra

- External coupler
- RF Power cable
- Switching unit

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Specifications

| | |
|--|---|
| Frequency bandwidth | 80 MHz - 1000 MHz |
| Typical output power | 2400 W |
| Power at 3 dB compression | 2200 W min up to 450 MHz / 2000 W min from 450 MHz to 1000 MHz |
| Power at 1 dB compression | 2000 W min up to 450 MHz / 1600 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 | 60 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 69 dB typ. |
| Power coupling connector | Type N fem. (front or rear panel) |
| Safety interlock | Type BNC |
| Digital control | Transistors, power supplies, temperatures, fans |
| Mismatch protection | Self limitation for reflected power > 1000 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: 960 l/sec max. (self contained fans) |
| Mains voltage | 47-63 Hz, 3 phases (star or delta) |
| Rated current | 18.4 kVA |
| Dimensions | 840 x 800 x 1940 mm (38U) / 33.1 x 31.5 x 76.4 in (38U) |
| Weight | 590 kg / 1298 lb |

MT240005JUN2023 - Electrical and Mechanical Specifications subject to change without notice.