

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
- 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

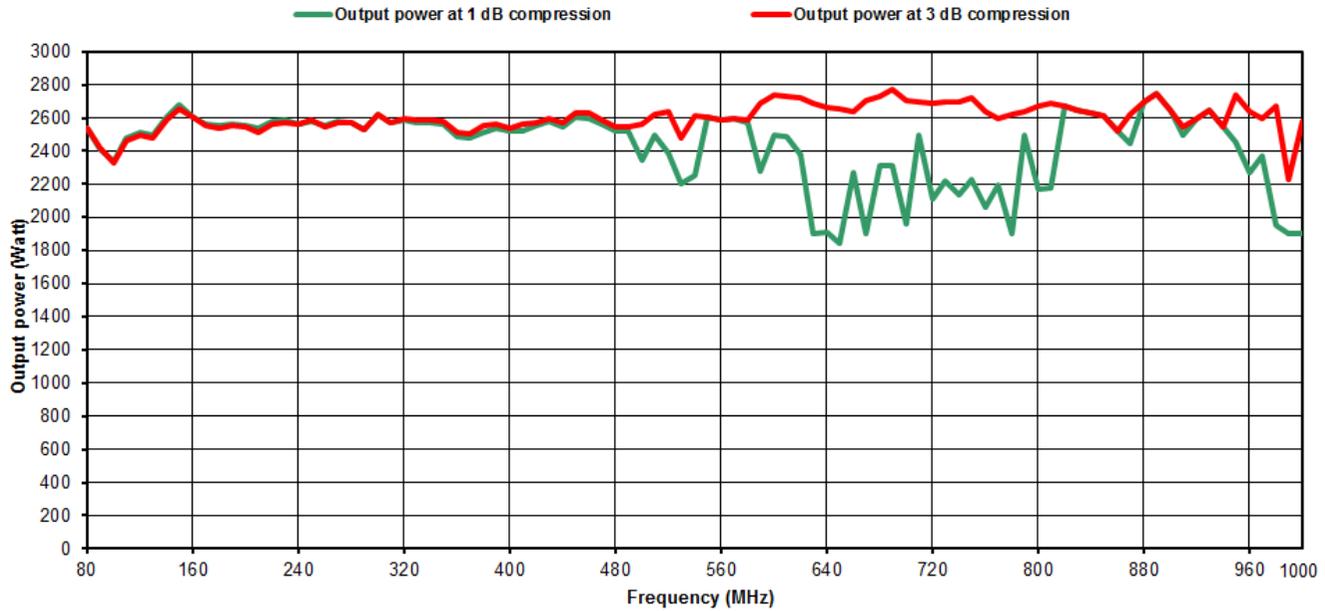
- MT 140 => 140 W CW
- MT 250 => 250 W CW
- MT 500 => 500 W CW
- MT 900 => 900 W CW
- MT 1450 => 1450 W CW
- MT 1650 => 1650 W CW
- MT 2400 => 2400 W CW
- MT 2800 => 2800 W CW
- MT 3500 => 3500 W CW
- MT 4500 => 4500 W CW

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 (D x W x H)	840 x 800 x 1940 mm (38U) / 33.1 x 31.5 x 76.4 in (38U)
Weight	590 kg / 1298 lb

MT240010JUN2025 - Electrical and Mechanical Specifications subject to change without notice.