

MT 1400

MT Range: 80 MHz - 1000 MHz / 1400 W CW



Prana MT 1400

- Class A solid state
- Broadband (instantaneous single band): 80 MHz – 1000 MHz
- Typical output power : 1400 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
 - P1dB > 1200 W and H < -20 dBc up to 450 MHz and
 - P1dB > 900 W and H < -20 dBc from 450 MHz to 1000 MHz
- Air cooling: self contained fans
- Can operate in full mismatch conditions without damage
- Upgradable to MT 1700 possible (38U)
- 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 1400 DC amplifier with:
 - Display
 - Digital control
 - IEEE 488 GPIB Communication
 - Integrated bidirectional coupler
 - display of instantaneous power

MT Range

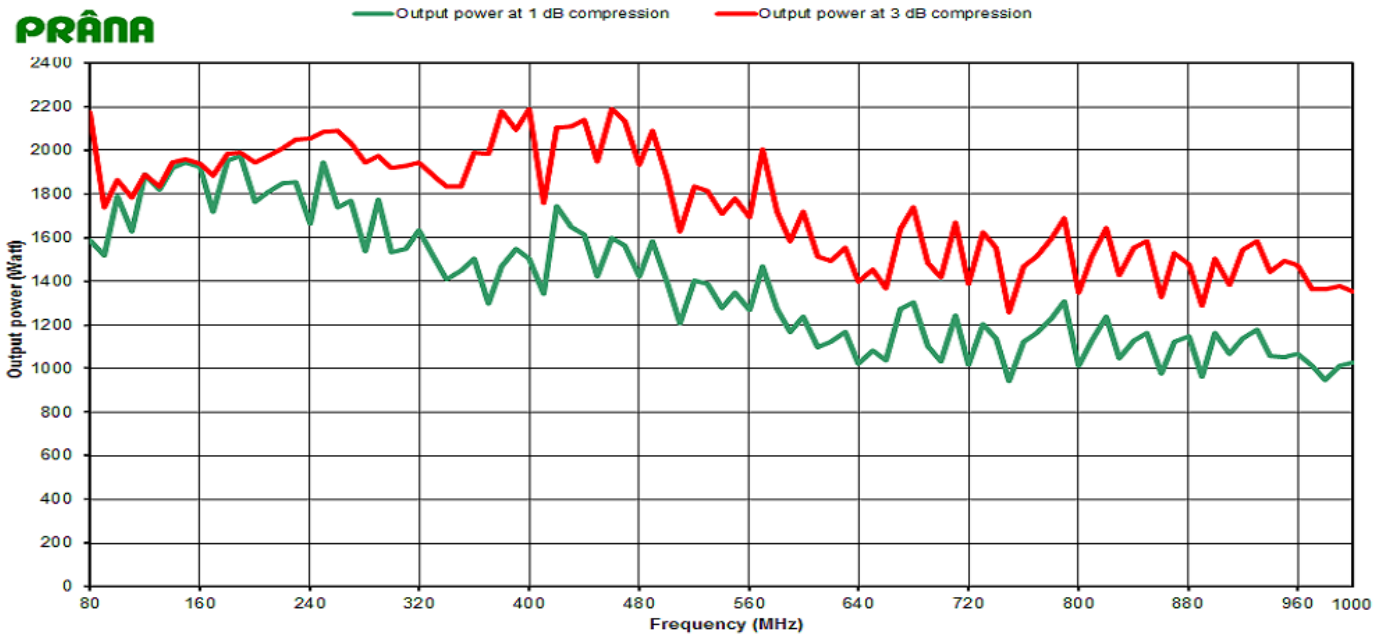
- MT 100 => 100 W CW
- MT 200 => 200 W CW
- MT 400 => 400 W CW
- MT 700 => 700 W CW
- MT 1200 => 1200 W CW
- MT 1400 => 1400 W CW
- MT 1700 => 1700 W CW
- MT 2000 => 2000 W CW
- MT 2800 => 2800 W CW

Extra

- External coupler
- RF Power cable
- Switching unit

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Specifications

Frequency bandwidth	80 MHz - 1000 MHz
Typical output power	1400 W
Power at 3 dB compression	1500 W min. up to 450 MHz / 1100 W min from 450 MHz to 1000 MHz
Power at 1 dB compression	1200 W min. up to 450 MHz / 900 W min from 450 MHz to 1000 MHz
Harmonics distortion	H2,H3 < -20 dBc for the output power at 1 dB compression limit
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 59 dB typ.
Power coupling connector	Type N fem. (front or rear panel)
Safety 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
4 lines digital display	Status, faults, (direct and reverse instantaneous power for DC version)
Ambient operating temperature	0 °C / + 35 °C
Room temperature storage	-20 °C / +70 °C
Cooling	Forced air: 480 l/sec max. (self contained fans)
Mains voltage	47-63 Hz, 3 phases (star or delta)
Rated current	9.3 kVA
Dimensions	840 x 600 x 1590 mm (30U) / 33.1 x 23.6 x 62.6 in (30U)
Weight	360 kg / 792 lb

MT140024NOV2014 - Electrical and Mechanical Specifications subject to change without notice.