

# MT 1650

MT Range: 80 MHz - 1000 MHz / 1650 W CW



## Prana MT 1650

- Class A solid state
- Broadband (instantaneous single band): 80 MHz – 1000 MHz
- Typical output power : 1650 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 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 1650 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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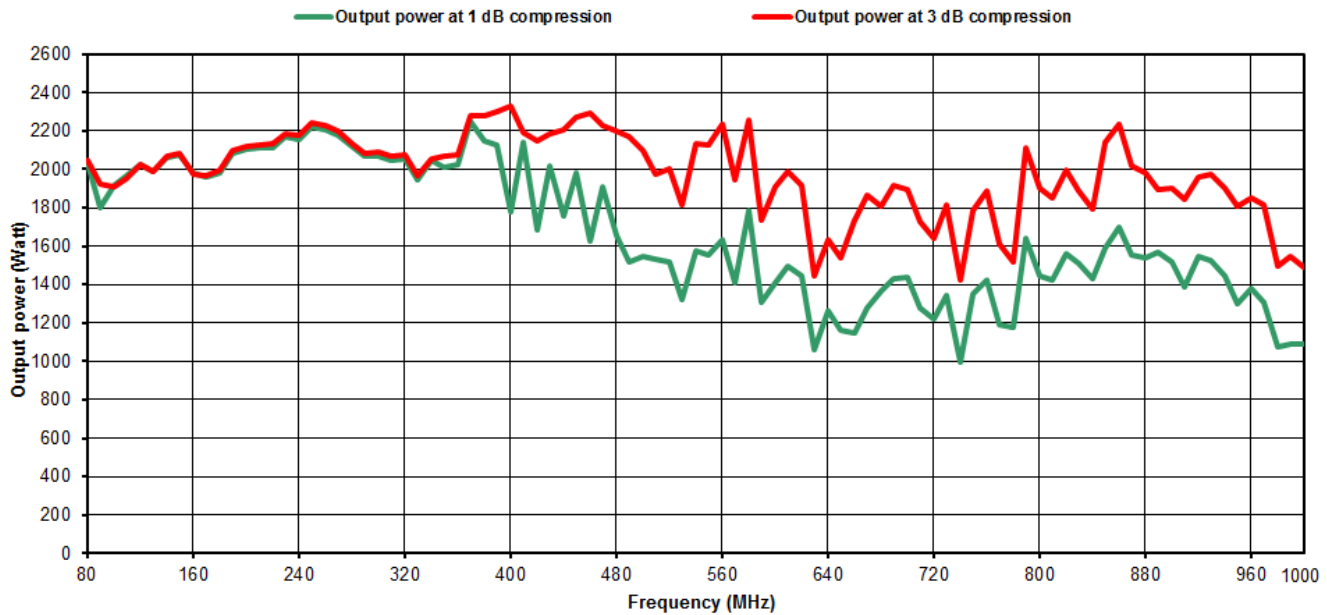
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## Specifications

Frequency bandwidth	80 MHz - 1000 MHz
Typical output power	1650 W
Power at 3 dB compression	1600 W min. up to 450 MHz / 1250 W min from 450 MHz to 1000 MHz
Power at 1 dB compression	1350 W min. up to 450 MHz / 950 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 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 > 600 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: 480 l/sec max. (self contained fans)
Mains voltage	47-63 Hz, 3 phases (star or delta)
Rated current	10.4 kVA
Dimensions	840 x 600 x 1590 mm (30U) / 33.1 x 23.6 x 62.6 in (30U)
Weight	290 kg / 639 lb

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