

### Prana TU 200:

- Class A solid state
- Broadband (instantaneous single band): 0.8 GHz – 2 GHz
- Typical output power : 100 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
  - P1dB > 130 W and H < -20 dBc up to 1 GHz
  - P1dB > 160 W and H < -20 dBc from 1 GHz to 2 GHz
- Air cooling: self contained fans
- Can operate in full mismatch conditions without damage
- Reliable, efficient and robust
- 19" Rack
- 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:

- **TU 200 D** amplifier with:
  - ⇒ Display
  - ⇒ Digital control
  - ⇒ IEEE 488 GPIB Communication
- **TU 200 DC** : TU 200 D with :
  - ⇒ Integrated bidirectional coupler
  - ⇒ display of instantaneous power

### TU series:

- TU 16 => 16 W CW
- TU 30 => 30 W CW
- TU 60 => 60 W CW
- TU 100 => 100 W CW

### Prana additional options:

- External coupler
- Supply and integration inside a cabinet
- RF Power cable
- Switching unit

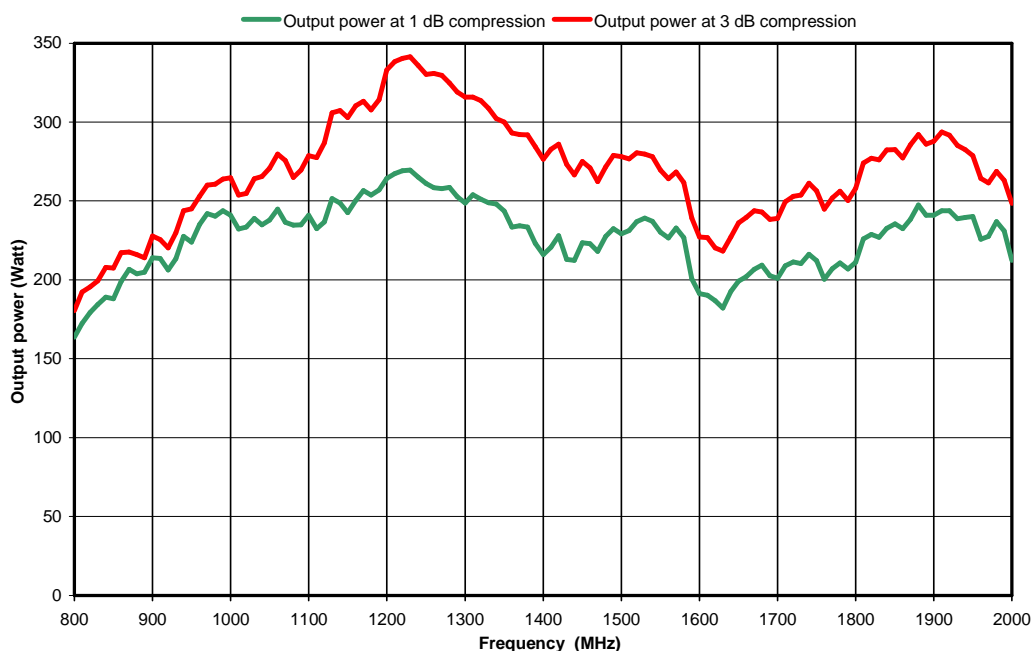


### Specifications

|                               |   |
|-------------------------------|---|
| Frequency bandwidth           | 0.8 GHz – 2 GHz   |
| Typical output power          | 200 W   |
| Power at 3 dB compression     | 140 W min. up to 1 GHz / 200 W min. from 1 GHz to 2 GHz *               |
| Power at 1 dB compression     | 130 W min. up to 1 GHz / 160 W min. from 1 GHz to 2 GHz *               |
| Harmonics distortion          | H2,H3 < -20 dBc for 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: 2:1max  |
| Output impedance              | 50 ohms / VSWR: 2:1max  |
| Input power                   | +10 dBm max.  |
| RF input connector            | Type N fem. (front or rear panel) – other connector type on request     |
| RF output connector           | Type N fem. (front or rear panel) – other connector type on request     |
| Safety interlock              | Connector type BNC  |
| Digital control               | Transistors, power supplies and internal temperature                    |
| 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: 120 l/sec max. (self contained fans)                        |
| Power voltage                 | 90-250 VAC, 47-63 Hz, single phase                                      |
| Rated current                 | 12.8 A at 110 VAC / 6.1 A at 230 VAC                                    |
| Dimensions                    | 450 x 630 x 267 mm (6U) / 17.7 x 24.8 x 10.5 in (6U)                    |
| Weight                        | 65 kg / 143 lb  |

### TU 200 DC versions

|  |   |
|--|---|
| Integrated bidirectional power coupler           | Coupling factor 49 dB (DC version) ± 0.4 dB |
| Power coupling connector                         | Type N fem. (front or rear panel)           |
| Estimated output power losses due to the coupler | 0.3 dB                                      |



\* Except DC version

Electrical and Mechanical Specifications subject to change without notice.