

### Prana UX 100:

- Class A solid state
- Broadband (instantaneous single band): 2 GHz – 6 GHz
- Typical output power : 100 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
  - P1dB > 70 W and H < -20 dBc up to 4 GHz
  - P1dB > 55 W and H < -20 dBc from 4 GHz to 6 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:

- **UX 100 D** amplifier with:
  - ⇒ Display
  - ⇒ Digital control
  - ⇒ IEEE 488 GPIB Communication
- **UX 100 DC** : UX 100 D with :
  - ⇒ Integrated bidirectional coupler
  - ⇒ display of instantaneous power

### UX series:

- UX 15 => 15 W CW
- UX 30 => 30 W CW
- UX 55 => 55 W CW

### Prana additional options:

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

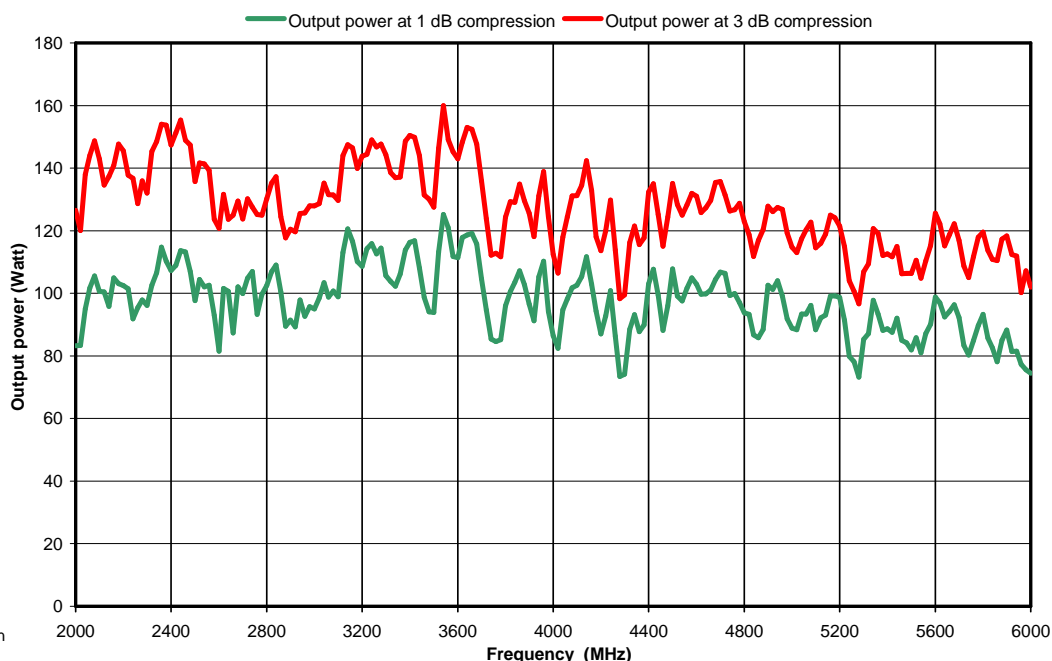


### Specifications

Frequency bandwidth.....	2 GHz – 6 GHz
Typical output power.....	100 W
Power at 3 dB compression.....	90 W min. up to 4 GHz / 75 W min. from 4 GHz to 6 GHz *
Power at 1 dB compression.....	70 W min. up to 4 GHz / 55 W min. from 4 GHz to 6 GHz *
Harmonics distortion.....	H2,H3 < -20 dBc for output power at 1 dB compression
Class type.....	Class A
Gain.....	56 dB
Linear power gain flatness.....	± 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.....	200-250 VAC, 47-63 Hz, single phase
Rated current.....	4.6 A at 230 VAC
Dimensions.....	450 x 630 x 311 mm (7U) / 17.7 x 24.8 x 12.2 in (7U)
Weight.....	37 kg / 81 lb

### UX 100 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.....	0.5 dB



\* Except DC version