

Prana LT 600:

- Class A solid state
- Broadband (instantaneous single band): 20 MHz – 1000 MHz
- Typical output power : 600 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
 - P1dB > 350 W and H < -20 dBc from 30 MHz to 80 MHz
 - P1dB > 600 W and H < -20 dBc from 80 MHz to 600 MHz
 - P1dB > 350 W and H < -20 dBc from 600 MHz to 1000 MHz
- Air cooling: self contained fans
- Can operate in full mismatch conditions without damage
- 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

DC version:

- **LT 600 DC** Version including :
 - ⇒ Display
 - ⇒ Digital control
 - ⇒ IEEE 488 GPIB Communication
 - ⇒ Integrated bidirectional coupler
 - ⇒ display of instantaneous power

LT series:

- LT 90 => 90 W CW
- LT 160 => 160 W CW
- LT 320 => 320 W CW

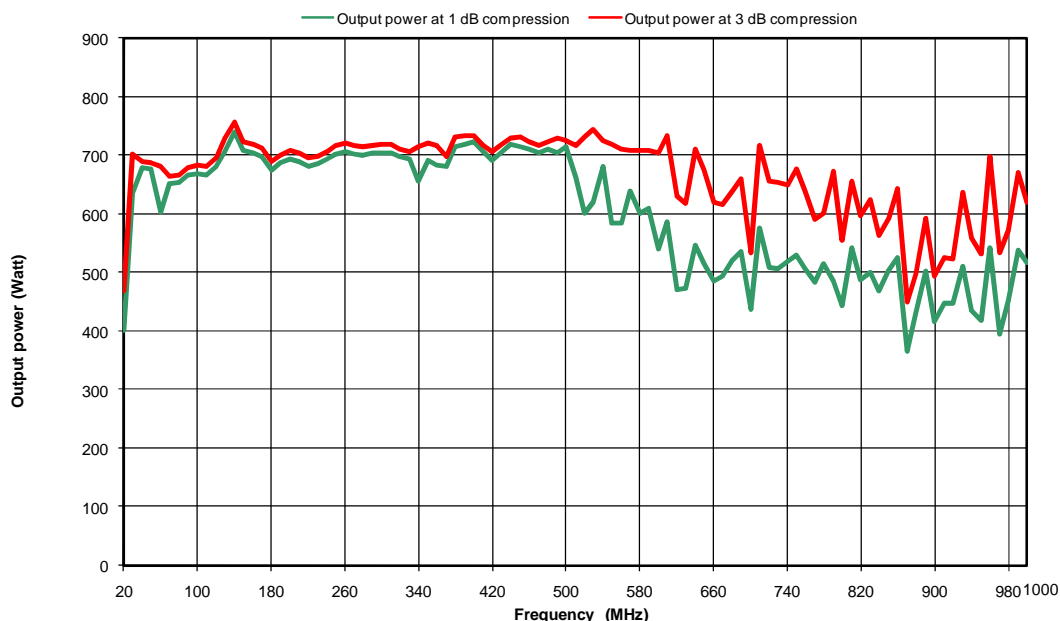
Prana additional options:

- External coupler
- RF Power cable
- Switching unit



Specifications

Frequency bandwidth.....	20 MHz - 1000 MHz
Typical output power.....	600 W
Power at 3 dB compression.....	400 W min. up to 80 MHz / 650 W min. from 80 MHz to 500 MHz/ 400 W min. from 500 MHz to 1000 MHz
Power at 1 dB compression.....	350 W min. up to 80 MHz / 600 W min. from 80 MHz to 500 MHz/ 350 W min. from 500 MHz to 1000 MHz
Harmonics distortion.....	H2,H3 < -20 dBC for the output power at 1 dB compression limit
Class type.....	Class A
Gain.....	56 dB
Linear power gain flatness.....	± 3 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 7/16 fem. (front or rear panel) – other connector type on request
Integrated bidirectional power coupler.....	Coupling factor 75 dB ± 0.5 dB
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 > 350W
Communication interface.....	IEEE 488
4 lines digital display.....	Status, faults, direct and reverse instantaneous power
Ambient operating temperature.....	0 °C / + 35 °C
Room temperature storage.....	-20 °C / +70 °C
Cooling.....	Forced air: 240 l/sec max. (self contained fans)
Mains voltage.....	47-63 Hz, 3 phases (star or delta)
Rated current.....	4.6 kVA
Dimensions.....	600 x 840 x 1320 mm (24U) / 23.6 x 33.1 x 51.9 in (24U)
Weight.....	205 kg / 451 lb



Electrical and Mechanical Specifications subject to change without notice.