

# LT 600

LT Range: 20 MHz - 1000 MHz / 600 W CW



## 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 and
  - P1dB > 600 W and H < -20 dBc from 80 MHz to 600 MHz and
  - 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

## Versions

- LT 600 DC amplifier with:
  - Display
  - Digital control
  - IEEE 488 GPIB Communication
  - Integrated bidirectional coupler
  - display of instantaneous power

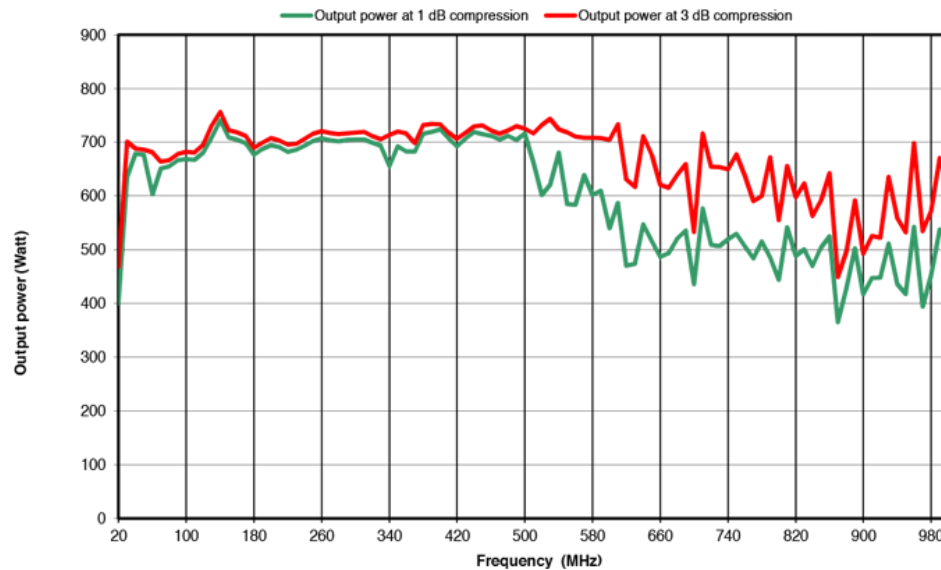
## LT Range

- LT 90 => 90 W CW
- LT 160 => 160 W CW
- LT 320 => 320 W CW
- LT 600 => 600 W CW

## Extra

- External coupler
- RF Power cable
- Switching unit

LT600 POWER AMPLIFIER 600W / 20 MHz - 1000 MHz



## Specifications

Frequency bandwidth	20 MHz - 1000 MHz
Typical output power	600 W
Power at 3 dB compression	400W min up to 80MHz/ 650W min from 80 to 500MHz/ 400W min from 500 to 1000MHz
Power at 1 dB compression	350W min up to 80MHz/ 600W min from 80 to 500MHz/ 350W min from 500 to 1000MHz
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	± 4 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 62 dB typ.
Power coupling connector	Type N fem. (front or rear panel)
Safety interlock	Connector type BNC
Digital control	Transistors, power supplies, internal temperatures and fans
Mismatch protection	Self limitation for reflected power > 350 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: 240 l/sec max (self contained fans)
Mains voltage	47-63 Hz, 3 phases (star or delta)
Rated current	5 kVA
Dimensions	600 x 840 x 1320 mm (24U) / 23.6 x 33.1 x 51.9 in (24U)
Weight	199 kg / 438 lb