



LT 320

LT Range: 20 MHz - 1000 MHz / 320 W CW



Prana LT 320

- Class A solid state
- Broadband (instantaneous single band): 20 MHz – 1000 MHz
- Typical output power : 320 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
 - P1dB > 280 W and H < -20 dBc from 20 MHz to 500 MHz and
 - P1dB > 200 W and H < -20 dBc from 500 MHz to 1000 MHz
- Air cooling: self contained fans
- Can operate in full mismatch conditions without damage
- Upgradable to LT 600 possible (24U)
- 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

- LT 320 D amplifier with:
 - Display
 - Digital control
 - IEEE 488 GPIB Communication
- LT 320 DC : LT 320 D with :
 - Integrated bidirectional coupler
 - display of instantaneous power

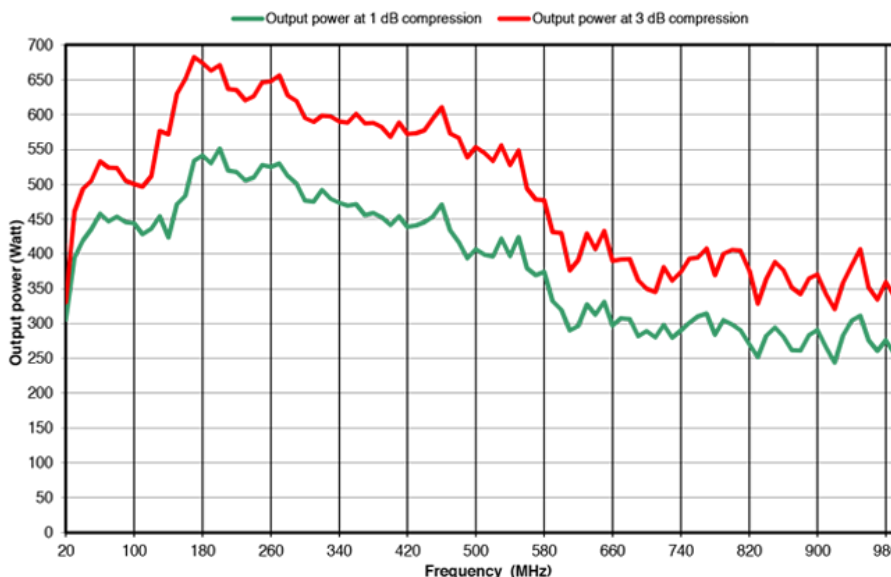
LT Range

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

Extra

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

LT320 POWER AMPLIFIER 320W / 20 MHz - 1000 MHz



Specifications

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|-------------------------------|---|
| Frequency bandwidth | 20 MHz - 1000 MHz |
| Typical output power | 320 W |
| Power at 3 dB compression | 320 W min. up to 500 MHz / 250 W min. from 500 MHz to 1000 MHz |
| Power at 1 dB compression | 280 W min. up to 500 MHz / 200 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 | 54 dB |
| Linear power gain flatness | ± 3 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 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, RS232 |
| 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 | 10 A at 230 VAC |
| Dimensions | 640 x 450 x 312 mm (7U) / 25.2 x 17.7 x 12.3 in (7U) |
| Weight | 47 kg / 103 lb |

LT 320 DC version :

| | |
|--|----------------------------|
| Integrated bidirectional power coupler | Coupling factor 70 dB typ. |
| Power coupling connector | Type N fem. (rear panel) |
| Estimated output power losses due to the coupler | 0.3 dB |