

LT 900

LT Range: 20 MHz - 1000 MHz / 900 W CW



Prana LT 900

- Class A solid state
- Broadband (instantaneous single band): 20 MHz – 1000 MHz
- Typical output power : 900 W CW
- Linear output power guaranteed with harmonics < -20 dBc
- 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 900 DC amplifier with:
 - Multicolor LCD display with touch panel
 - Digital control
 - IEEE 488 GPIB, Ethernet, USB, RS232 Communications
 - Temperature controlled fans
 - Safety interlock
 - Integrated dual directional coupler
 - Display of instantaneous incident and reflected power

LT Range

- LT 140 => 140 W CW
- LT 250 => 250 W CW
- LT 500 => 500 W CW
- LT 900 => 900 W CW

Extra

- External coupler
- RF Power cable
- Switching unit

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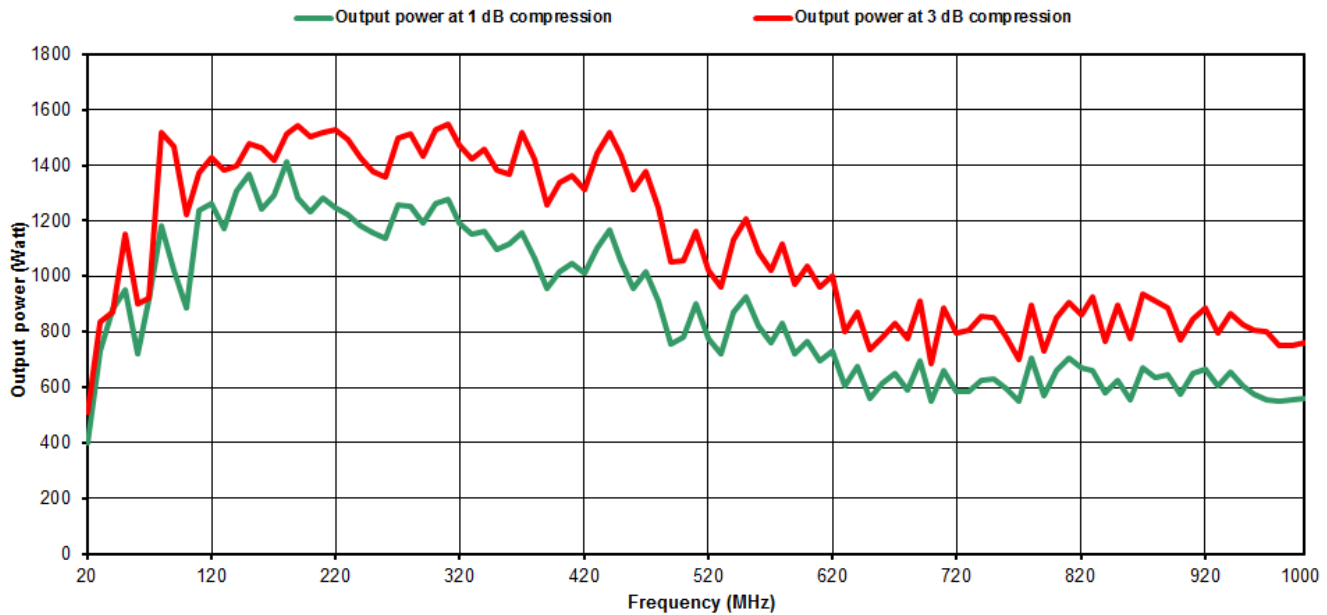
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Specifications

| | |
|--|--|
| Frequency bandwidth | 20 MHz - 1000 MHz |
| Typical output power | 900 W |
| Power at 3 dB compression | 450Wmin up to 80MHz/ 1100Wmin from 80 to 450MHz/ 650Wmin from 450MHz to 1GHz |
| Power at 1 dB compression | 350Wmin up to 80MHz/ 800Wmin from 80 to 450MHz/ 500Wmin from 450MHz to 1GHz |
| Harmonics distortion | H2,H3 < -20 dBc for the output power at 1 dB compression |
| 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, 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 |

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