

DR 2000

DR Range: 10 kHz - 400 MHz / 2000 W CW



Prana DR 2000

- Class A solid state
- Broadband (instantaneous single band): 10 kHz –400 MHz
- Typical output power : 2000 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
 - P1dB > 1500 W and H<-20 dBc up to 250 MHz and
 - P1dB > 1000 W and H<-20 dBc from 250 MHz to 400 MHz
- Air cooling: self contained fans
- Can operate in full mismatch conditions without damage
- Reliable, efficient and robust
- 22" 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

- DR 2000 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

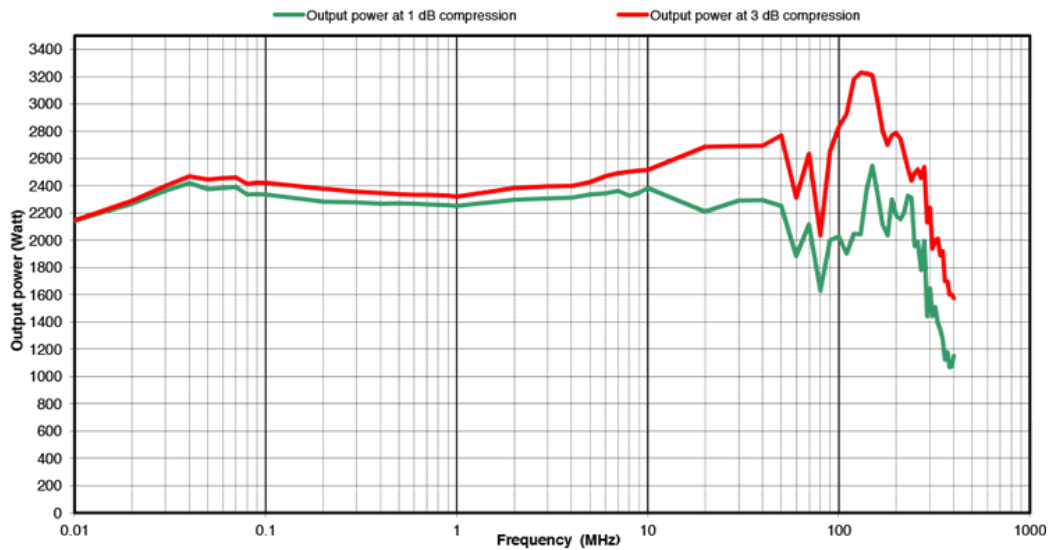
DR Range

- DR 60 => 60 W CW
- DR 110 => 110 W CW
- DR 220 => 220 W CW
- DR 400 => 400 W CW
- DR 600 => 600 W CW
- DR 1200 => 1200 W CW
- DR 2000 => 2000 W CW

Extra

- External coupler
- Bulk Current Injection + Calibration JIG
- RF Power cable
- Switching unit

DR2000 POWER AMPLIFIER 2000W / 10 KHz - 400MHz



Specifications

| | |
|--|---|
| Frequency bandwidth | 10 kHz - 400 MHz |
| Typical output power | 2000 W |
| Power at 3 dB compression | 2000 W min. up to 250 MHz / 1500 W min. from 250 MHz to 400 MHz |
| Power at 1 dB compression | 1500 W min. up to 250 MHz / 1000 W min. from 250 MHz to 400 MHz |
| Harmonics distortion | H2,H3 < -20 dBc for the output power at 1 dB compression limit |
| Class type | Class A |
| Gain | 60 dB |
| Linear power gain flatness | ± 2.5 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 7/16 fem. (front or rear panel) – other connector type on request |
| Integrated bidirectional power coupler | Coupling factor 69 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 > 1000 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 / + 35 °C |
| Room temperature storage | -20 °C / +70 °C |
| Cooling | Forced air with fan speed control: 960 l/sec max. (self contained fans) |
| Mains voltage | 47-63 Hz, 3 phases (star or delta) |
| Rated current | 21 kVA |
| Dimensions | 800 x 840 x 2120 mm (42U) / 31.5 x 33.1 x 83.4 in (42U) |
| Weight | 650 kg / 1 433 lb |