

N-DP 2500

DP Range: 9 kHz - 250 MHz / 2500 W CW



Prana N-DP 2500

- Class A solid state
- Broadband (instantaneous single band): 9 kHz – 250 MHz
- Frequency extension between 4 kHz and 9 kHz upon request
- Typical output power : 2500 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
 - P1dB >1800 W and H<-20dBc at 9 kHz
 - P1dB >2000 W and H<-20dBc from 10 kHz to 50 MHz
 - P1dB >1300 W and H<-20dBc from 50 MHz to 250 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

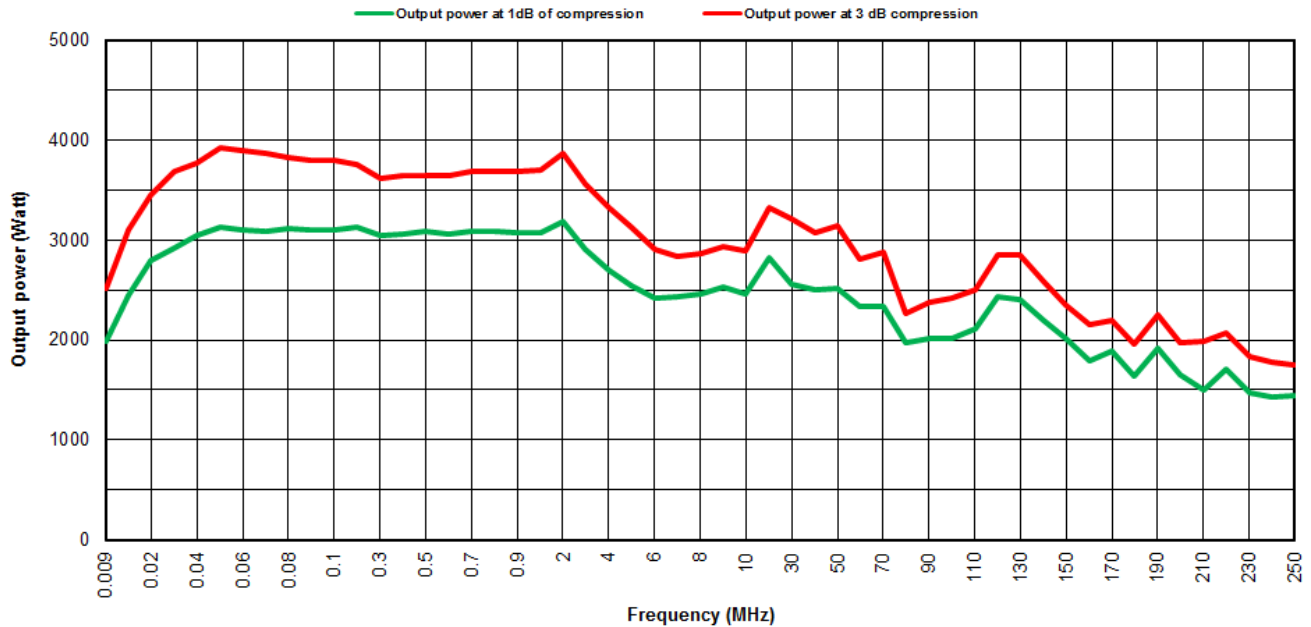
- N-DP 2500 DC amplifier with:
 - Multicolor LCD display with touch panel
 - Digital control
 - IEEE 488 GPIB, Ethernet, USB, RS232 Communications
 - Temperature controlled fans
 - Safety interlock
 - Integrated dual directional coupler
 - Display of instantaneous incident and reflected power

DP Range

- N-DP 90 => 90 W CW
- N-DP 180 => 180 W CW
- N-DP 340 => 340 W CW
- N-DP 670 => 670 W CW
- N-DP 1350 => 1350 W CW
- N-DP 2500 => 2500 W CW
- N-DP 5000 => 5000 W CW
- N-DP 10000 => 10000 W CW
- N-DP 16000 => 16000 W CW

Extra

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



Specifications

| | |
|--|---|
| Frequency bandwidth | 9 kHz - 250 MHz |
| Typical output power | 2500 W |
| Power at 3 dB compression | 2300W min at 9kHz/2500W min from 10kHz to 50MHz/1500W min from 50 to 250MHz |
| Power at 1 dB compression | 1800W min at 9kHz/2000W min from 10kHz to 50MHz/1300W min from 50 to 250MHz |
| Harmonics distortion | H2,H3 < -20 dBc for the output power at 1 dB compression limit |
| Class type | Class A |
| Gain | 63 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 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: 480 l/sec max. (self contained fans) |
| Mains voltage | 47-63 Hz, 3 phases (star or delta) |
| Rated current | 10.35 kVA |
| Dimensions | 600 x 840 x 1682 mm (32U) / 23.6 x 33.1 x 66.2 in (32U) |
| Weight | 390 kg / 858 lb |