

N-DR 1100

DR Range: 10 kHz - 400 MHz / 1100 W CW

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PRANA
Broadband power amplifiers



Prana N-DR 1100

- Class A solid state
- Broadband (instantaneous single band): 10 kHz –400 MHz
- Typical output power : 1100 W CW
- Linear output power (1 dB compression) guaranted with harmonics <-20 dBc:
 - P1dB > 700 W and H<-20 dBc up to 250 MHz and
 - P1dB > 400 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
- 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-DR 1100 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

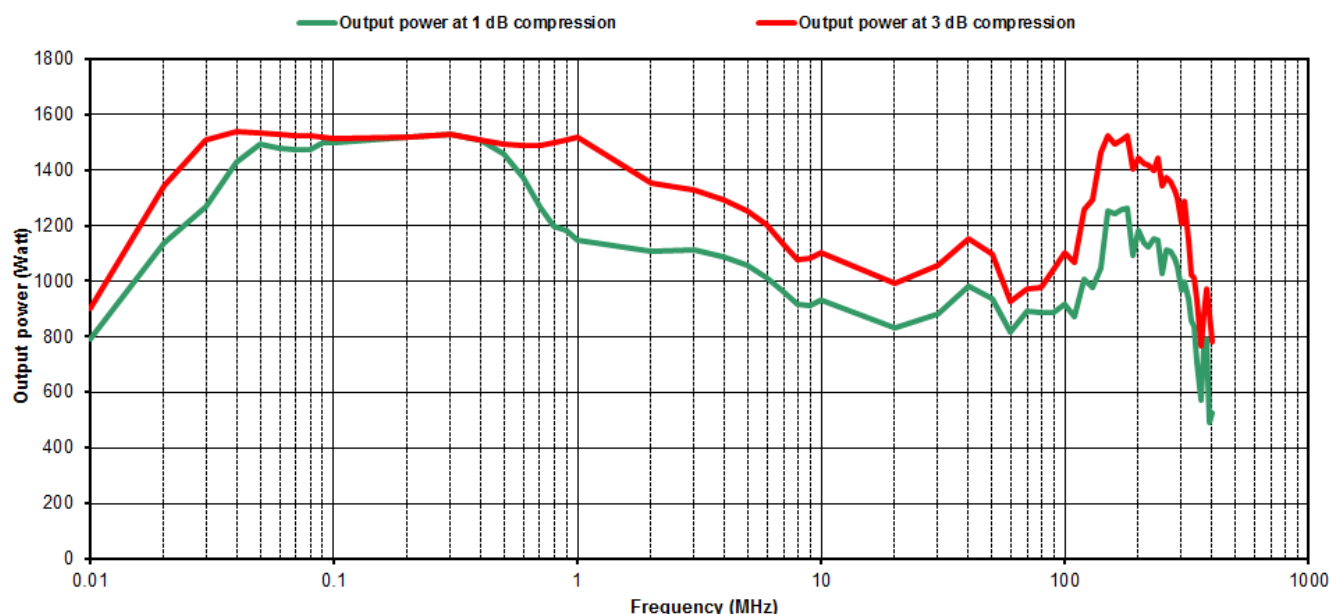
- DR 60 => 60 W CW
- DR 110 => 110 W CW
- DR 220 => 220 W CW
- DR 400 => 400 W CW
- N-DR 1100 => 1100 W CW
- DR 1200 => 1200 W CW
- DR 2000 => 2000 W CW

Extra

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

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Specifications

Frequency bandwidth	10 kHz - 400 MHz
Typical output power	1100 W
Power at 3 dB compression	800 W min. up to 250 MHz/ 600 W min. from 250 MHz to 400 MHz
Power at 1 dB compression	700 W min. up to 250 MHz/ 400 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	56 dB
Linear power gain flatness	± 2.5 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 59 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 > 500 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: 240 l/sec max. (self contained fans)
Mains voltage	47-63 Hz, 3 phases (star or delta)
Rated current	5.4 kVA
Dimensions	600 x 840 x 1050 mm (18U) / 23.6 x 33.1 x 41.3 in (18U)
Weight	230 kg / 506 lb