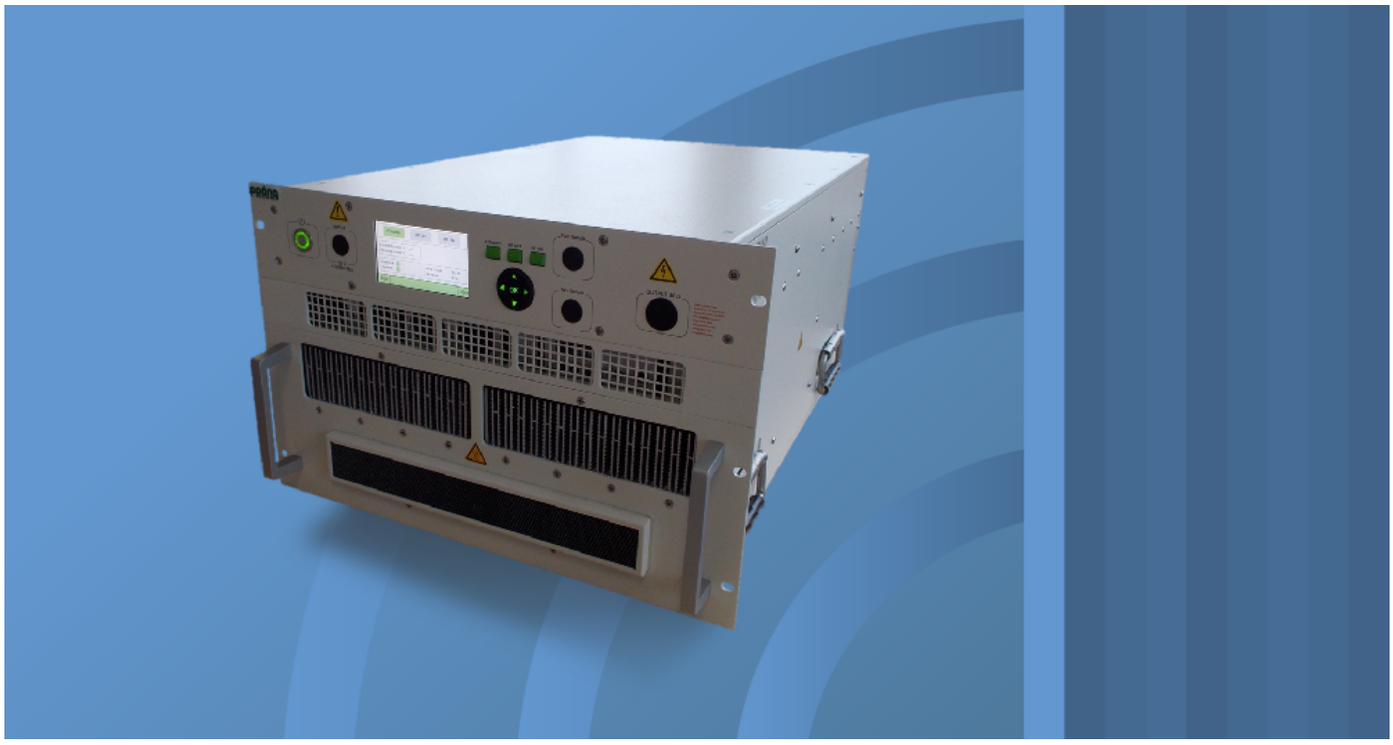
N-DP 670

DP Range: 9 kHz - 250 MHz / 670 W CW



Prana N-DP 670

- 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 : 670 W CW
- Linear output power (1 dB compression) guaranted with harmonics <-20 dBc:
  - P1dB >300 W and H<-20dBc at 9 kHz
  - P1dB >400 W and H<-20dBc from 10 kHz to 20 kHz
  - P1dB >600 W and H<-20dBc from 20 kHz to 50 MHz
  - P1dB >380 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" 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

- N-DP 670 D amplifier with:
  - Multicolor LCD display with touch panel
  - Digital control
  - IEEE 488 GPIB, Ethernet, USB, RS232 Communications
  - Temperature controlled fans
  - Safety interlock
- N-DP 670 DC : N-DP 670 D with :
  - 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
- Supply and integration inside a cabinet
- Bulk Current Injection + Calibration JIG
- RF Power cable
- Switching unit

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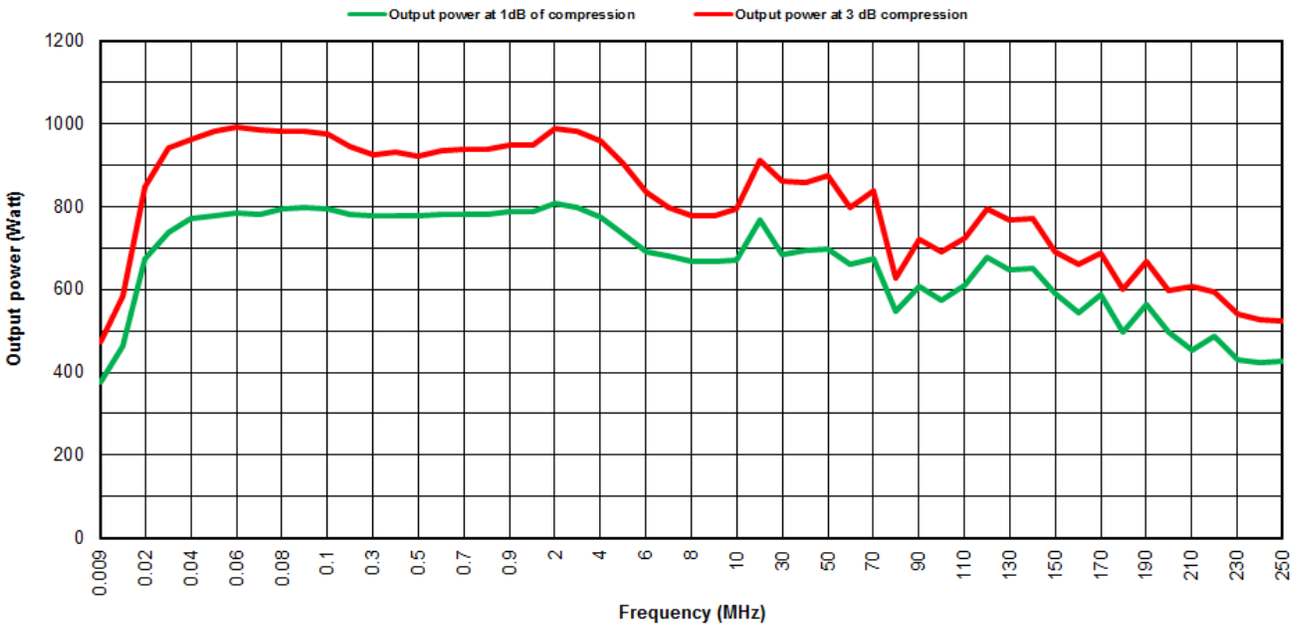

Specifications

Frequency bandwidth	9 kHz - 250 MHz
Typical output power	670 W
Power at 3 dB compression	400W min 9kHz/ 450W min 10-20kHz/ 700W min 20kHz-50MHz/ 480W min 50-250MHz
Power at 1 dB compression	300W min 9kHz/ 400W min 10-20kHz/ 600W min 20kHz-50MHz/ 380W min 50-250MHz
Harmonics distortion	H2,H3 < -20 dBc for the output power at 1 dB compression limit
Class type	Class A
Gain	57 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 N fem. (front or rear panel) – other connector type on request
Safety interlock	Connector type BNC
Digital control	Transistors, power supplies, temperatures, fans
Communication interface	Ethernet, USB, GPIB, RS232
Color LCD Display with touch screen	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 with fan speed control: 120 l/sec max. (self contained fans)
Power voltage	200-250 VAC, 47-63 Hz, single phase
Rated current	11.3 A at 230 VAC
Dimensions	640 x 450 x 360 mm (8U) / 25.2 x 17.7 x 14.2 in (8U)
Weight	51 kg / 112 lb

N-DP 670 DC version :

Integrated bidirectional power coupler	Coupling factor 59 dB typ.
Power coupling connector	Type N fem. (rear panel)
Estimated output power losses due to the coupler	0.5 dB

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