

DR 400

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



Prana DR 400

- Class A solid state
- Broadband (instantaneous single band): 10 kHz –400 MHz
- Typical output power : 400 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
 - P1dB > 300 W and H<-20 dBc up to 250 MHz and
 - P1dB > 150 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" 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

- DR 400 D amplifier with:
 - Display
 - Digital control
 - IEEE 488 GPIB Communication
- DR 400 DC : DR 400 D with :
 - Integrated bidirectional coupler
 - display of instantaneous power

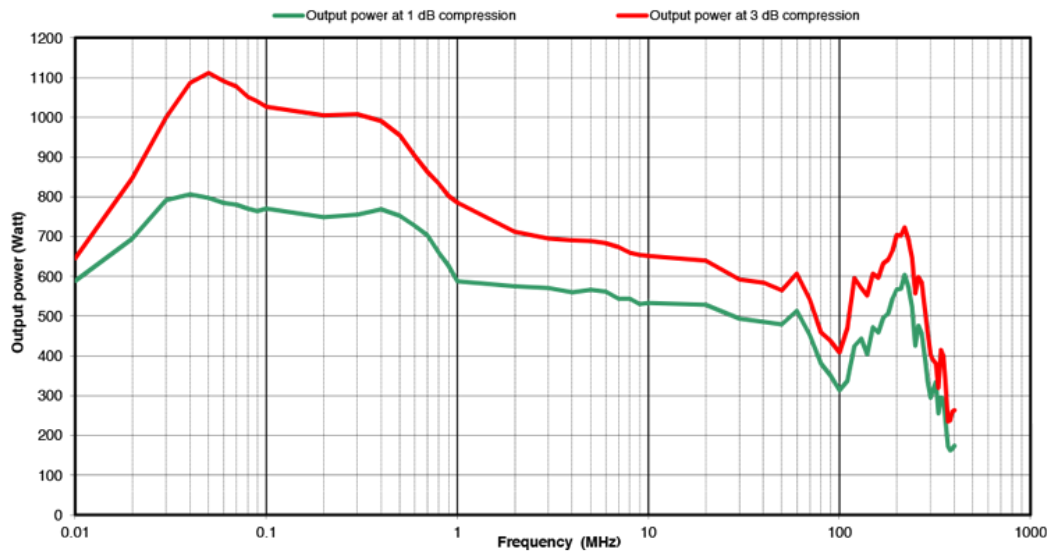
DR Range

- 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
- Supply and integration inside a cabinet
- Bulk Current Injection + Calibration JIG
- RF Power cable
- Switching unit

DR400 POWER AMPLIFIER 400W / 10 KHz - 400MHz



Specifications

Frequency bandwidth	10 kHz - 400 MHz
Typical output power	400 W
Power at 3 dB compression	350 W min. up to 250 MHz/200 W min. from 250 MHz to 400 MHz
Power at 1 dB compression	300 W min. up to 250 MHz/150 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	54 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 N fem. (front or rear panel) – other connector type on request
Safety interlock	Connector type BNC
Digital control	Transistors, power supplies and internal temperature
Communication interface	IEEE 488, RS232
4 lines digital display	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: 120 l/sec max. (self contained fans)
Power voltage	200-250 VAC, 47-63 Hz, single phase
Rated current	10.4 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

DR 400 DC version :

Integrated bidirectional power coupler	Coupling factor 49 dB typ.
Power coupling connector	Type N fem. (rear panel)
Estimated output power losses due to the coupler	0.3 dB