

DP 300

DP Range: 10 kHz - 250 MHz / 300 W CW



Prana DP 300

- Class A solid state
- Broadband (instantaneous single band): 10 kHz – 250 MHz
- Typical output power : 300 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
 - P1dB >180 W and H<-20dBc
- 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

- DP 300 S : standard amplifier
- DP 300 D amplifier with:
 - Display
 - Digital control
 - IEEE 488 GPIB Communication
- DP 300 SC : DP 300 S with
 - Integrated bidirectional coupler
- DP 300 DC : DP 300 D with :
 - Integrated bidirectional coupler
 - display of instantaneous power

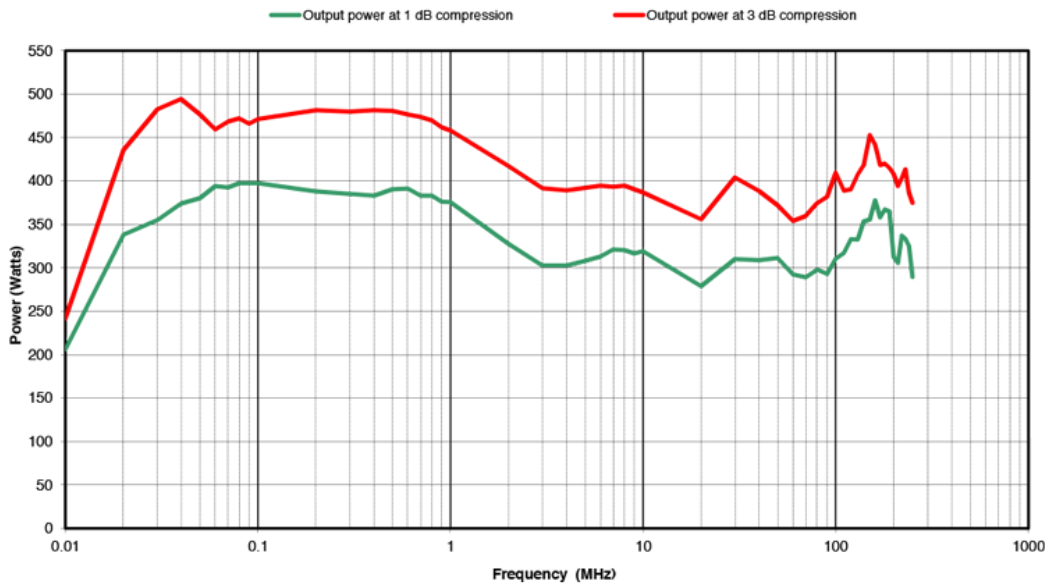
DP Range

- DP 70 => 70 W CW
- DP 140 => 140 W CW
- DP 300 => 300 W CW
- DP 600 => 600 W CW
- DP 1300 => 1300 W CW
- DP 2500 => 2500 W CW
- DP 5000 => 5000 W CW

Extra

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

DP300 POWER AMPLIFIER 300W / 10 KHz - 250MHz



Specifications

Frequency bandwidth	10 kHz - 250 MHz
Typical output power	300 W
Power at 3 dB compression	235 W min
Power at 1 dB compression	180 W min
Harmonics distortion	H2,H3 < -20 dBc for the output power at 1 dB compression limit
Class type	Class A
Gain	53 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 N fem. (front or rear panel) – other connector type on request
Ambient operating temperature	0 °C / + 35 °C
Room temperature storage	-20 °C / +70 °C
Cooling	Forced air: 60 l/sec max. (self contained fans)
Power voltage	90-250 VAC, 47-63 Hz, single phase
Rated current	13.2 A at 110 VAC / 6.3 A at 230 VAC
Dimensions	640 x 450 x 178 mm (4U) / 25.2 x 17.7 x 7 in (4U)
Weight	35 kg / 77 lb

DP 300 D version :

Safety interlock	Connector type BNC
Digital control	Transistors, power supplies and internal temperature
Communication interface	IEEE 488
4 lines digital display	Status, faults, (direct and reverse instantaneous power for DC version)

DP 300 SC and DP 300 DC versions :

Integrated bidirectional power coupler	Coupling factor 40 dB typ. (SC version) / 49 dB typ. (DC version)
Power coupling connector	Type N fem. (front or rear panel)
Estimated output power losses due to the coupler	0.3 dB