DP 16000

DP Range: 9 kHz - 250 MHz / 16000 W CW



Prana DP 16000

- 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 : 16000 W CW
- Linear output power (1 dB compression) guaranted with harmonics <-20 dBc:
  - P1dB > 14 kW and H<-20dBc at 9 kHz
  - P1dB > 15 kW and H<-20dBc from 10 kHz to 30 MHz
  - P1dB > 8 kW and H<-20dBc from 30 MHz to 225 MHz
  - P1dB > 6 kW and H<-20dBc from 225 MHz to 250 MHz
- Air cooling: self contained fans
- Can operate in full mismatch conditions without damage
- Reliable, efficient and robust
- 19" and 22" 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

- DP 16000 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

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

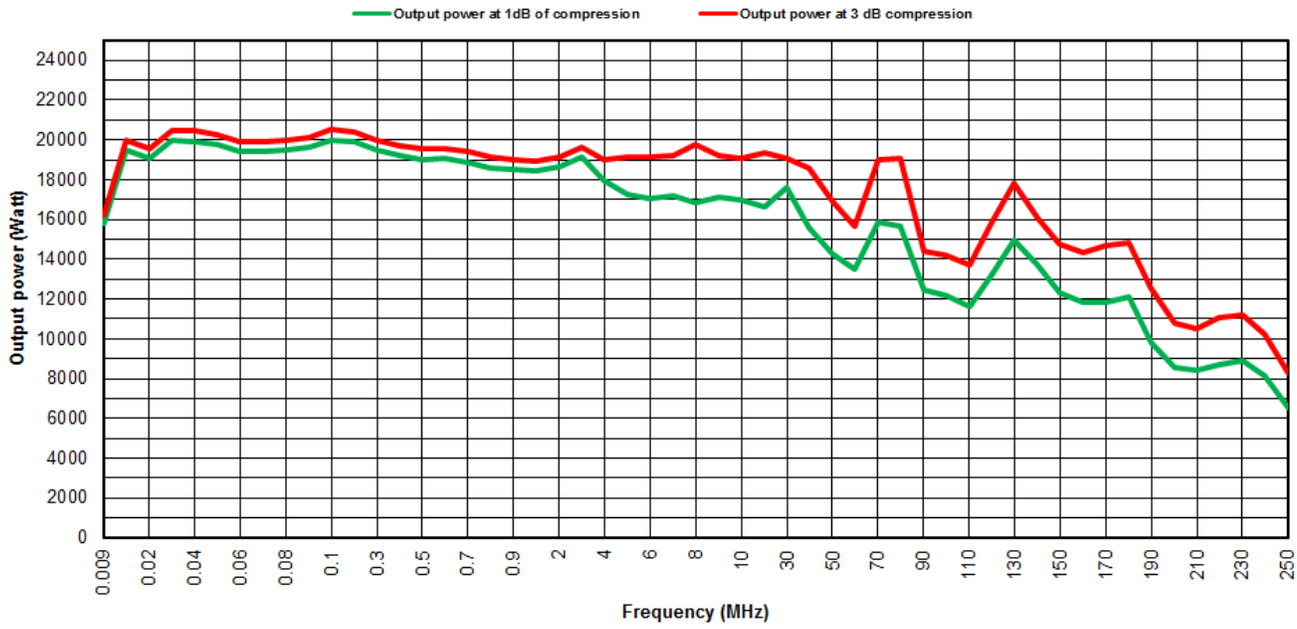
Extra

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

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DP 16000

DP Range: 9 kHz - 250 MHz / 16000 W CW



Specifications

Frequency bandwidth	9 kHz - 250 MHz
Typical output power	16000 W
Power at 3 dB compression minimum	15kW at 9kHz / 18kW 10kHz-30MHz / 10kW 30-225MHz / 8kW 225-250MHz
Power at 1 dB compression minimum	14kW at 9kHz / 15kW 10kHz-30MHz / 8kW 30-225MHz / 6kW 225-250MHz
Harmonics distortion	H2,H3 < -20 dBc for the output power at 1 dB compression limit
Class type	Class A
Gain	72 dB
Linear power gain flatness	± 4 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 EIA 1-5/8 (rear panel)
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 > 8000 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: 4x 960 l/sec max. (self contained fans)
Mains voltage	47-63 Hz, 3 phases (star or delta)
Rated current	84 kVA
Dimensions	4x 800 x 840 x 2120 mm (42U) + 600 x 840 x 1950mm (38U)
Weight	4x 590 kg + 290 kg / 4x 1300 lb + 640 lb

DP1600005JUN2023 - Electrical and Mechanical Specifications subject to change without notice.

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Made in France