

Prana SV 1000:

- Class A solid state
- Broadband (instantaneous single band): 0.8 GHz – 3.2 GHz
- Typical output power : 1000 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
 - P1dB > 570 W and H < -20 dBc up to 2 GHz
 - P1dB > 470 W and H < -20 dBc from 2 GHz to 3.2 GHz
- 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:

- **SV 1000 D** : amplifier with:
 - ⇒ Display
 - ⇒ Digital control
 - ⇒ IEEE 488 GPIB Communication
- **SV 1000 DC** : SV 1000 D with :
 - ⇒ Integrated bidirectional coupler
 - ⇒ display of instantaneous power

SV series:

- SV20 => 20 W CW
- SV 40 => 40 W CW
- SV 70 => 70 W CW
- SV 120 => 120 W CW
- SV 220 => 220 W CW
- SV 450 => 450 W CW

Prana additional options:

- External coupler
- RF Power cable
- Switching unit

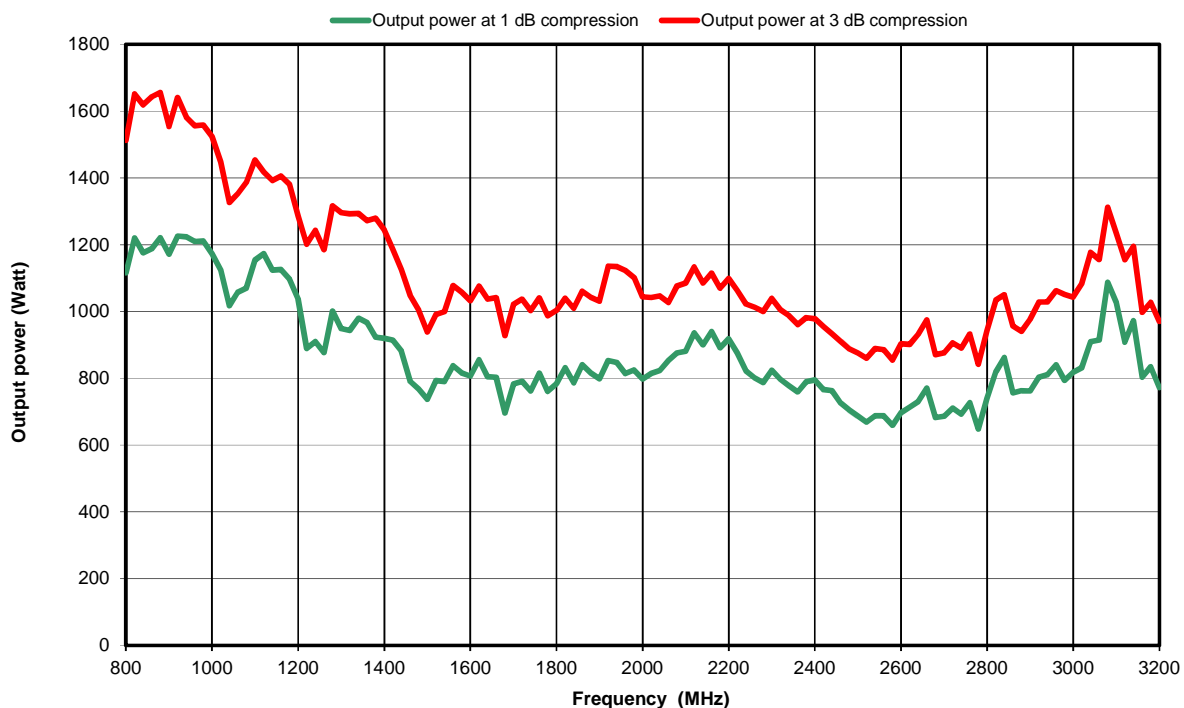


Specifications

Frequency bandwidth.....	0.8 GHz – 3.2 GHz
Typical output power.....	1000 W
Power at 3 dB compression.....	770 W min. up to 2 GHz / 670W min. from 2 GHz to 3.2 GHz*
Power at 1 dB compression.....	570 W min. up to 2 GHz / 470W min. from 2 GHz to 3.2 GHz *
Harmonics distortion.....	H2,H3 < -20 dBc for output power at 1dB compression
Class type.....	Class A
Gain.....	63 dB
Linear power gain flatness.....	± 5 dB max (up to 3 GHz)
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 panel) – other connector type on request
RF output connector.....	Type 7/16 fem. (front panel) – other connector type on request
Ambient operating temperature.....	0 °C / + 35 °C
Room temperature storage.....	-20 °C / +70 °C
Cooling.....	Forced air: 480 l/sec max. (self contained fans)
Power voltage.....	47-63 Hz, 3 phases (star or delta)
Rated current.....	7kVA
Dimensions.....	840 x 600 x 1590 mm (30U) / 33.1 x 23.6 x 62.6 in (30U)
Weight.....	320 kg / 705 lb

SV 1000 DC versions

Integrated bidirectional power coupler.....	69 dB (DC version) ± 1 dB
Power coupling connector.....	Type N fem. (rear panel)
Estimated output power losses due to the coupler.....	0.4 dB



* Except DC version