

Prana SV 120:

- Class A solid state
- Broadband (instantaneous single band): 0.8 GHz – 3.2 GHz
- Typical output power : 120 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
 - P1dB > 100 W and H < -20 dBc up to 2 GHz
 - P1dB > 70 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
- Upgradable to SV 220 possible
- 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:

- **SV 120 D** amplifier with:
 - ⇒ Display
 - ⇒ Digital control
 - ⇒ IEEE 488 GPIB Communication
- **SV 120 DC** : SV 120 D with :
 - ⇒ Integrated bidirectional coupler
 - ⇒ display of instantaneous power

SV series:

- SV 20 => 20 W CW
- SV 40 => 40 W CW
- SV 70 => 70 W CW
- SV 220 => 220 W CW

Prana additional options:

- External coupler
- Supply and integration inside a cabinet
- RF Power cable
- Switching unit

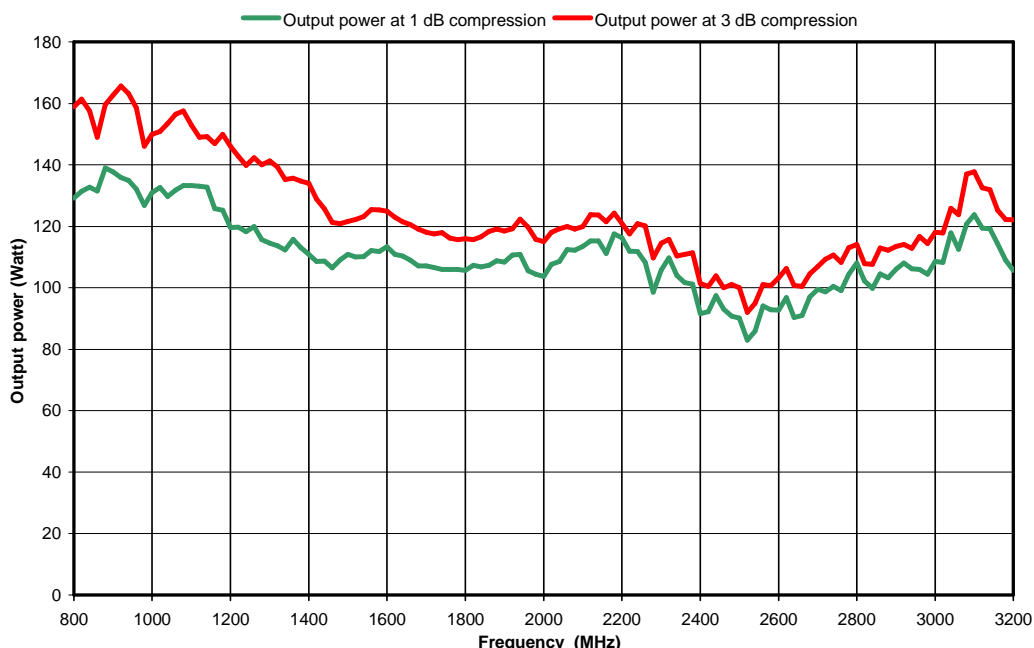


Specifications

Frequency bandwidth.....	0.8 GHz – 3.2 GHz
Typical output power.....	120 W
Power at 3 dB compression.....	100 W min. up to 2 GHz / 70 W min. from 2 GHz to 3.2 GHz *
Power at 1 dB compression.....	90 W min. up to 2 GHz / 60 W min. from 2 GHz to 3.2 GHz *
Harmonics distortion.....	H2,H3 < -20 dBc for output power at 1 dB compression
Class type.....	Class A
Gain.....	54 dB
Linear power gain flatness.....	± 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
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.....	90-250 VAC, 47-63 Hz, single phase
Rated current.....	10 A at 110 VAC / 4.8 A at 230 VAC
Dimensions.....	450 x 630 x 311 mm (7U) / 17.7 x 24.8 x 12.2 in (7U)
Weight.....	33 kg / 72.6 lb

SV 120 DC versions

Integrated bidirectional power coupler.....	Coupling factor 59 dB (DC version) ± 0.4 dB
Power coupling connector.....	Type N fem. (front or rear panel)
Estimated output power losses due to the coupler.....	0.3 dB



* Except DC version

Electrical and Mechanical Specifications subject to change without notice.