SV 1000

SV Range: 0.8 GHz - 3.2 GHz / 1000 W CW



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 guaranteed with harmonics < -20 dBc
- 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 DC amplifier with:
  - Display
  - Digital control
  - IEEE 488 GPIB Communication
  - Integrated bidirectional coupler
  - display of instantaneous power

SV Range

- SV 28 => 28 W CW
- SV 48 => 48 W CW
- SV 90 => 90 W CW
- SV 120 => 120 W CW
- SV 220 => 220 W CW
- SV 450 => 450 W CW
- SV 1000 => 1000 W CW

Extra

- External coupler
- RF Power cable
- Switching unit

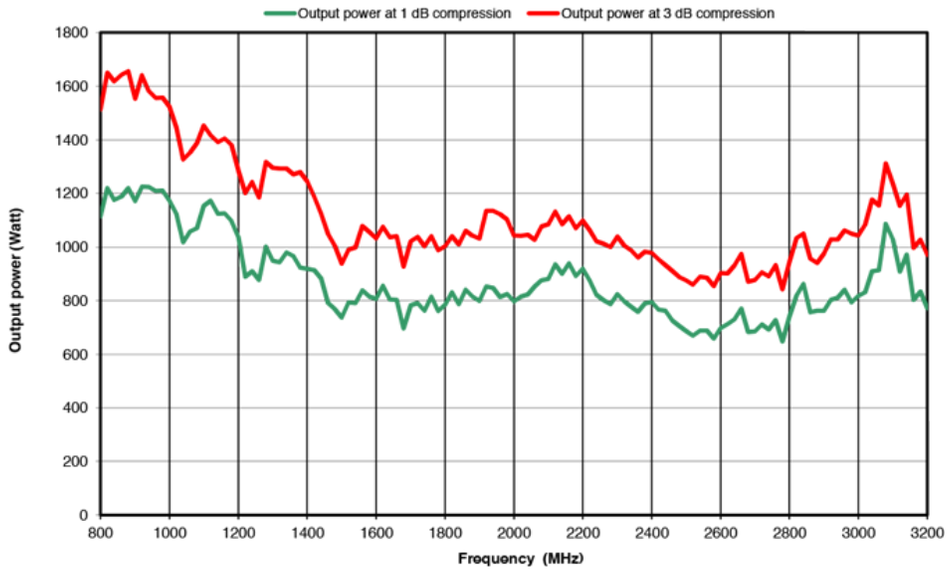
SV100005JUN2023 - Electrical and Mechanical Specifications subject to change without notice.

PRANA R&D - 6 Rue Pierre Milon 19100 Brive-la-Gaillarde - France
Tel : (+33) 555 86 49 40 - Fax : (+33) 555 86 49 45

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SV1000 POWER AMPLIFIER 1000W / 800 MHz - 3200 MHz



Specifications

Frequency bandwidth	0.8 GHz - 3.2 GHz
Typical output power	1000 W
Power at 3 dB compression	770 W min. up to 1.8 GHz / 670W min. from 1.8 GHz to 3.2 GHz *
Power at 1 dB compression	570 W min. up to 1.8 GHz / 470W min. from 1.8 GHz to 3.2 GHz *
Harmonics distortion	H2,H3 < -20 dBc for the output power at 1 dB compression
Class type	Class A
Gain	63 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 7/16 fem. (front or rear panel) – other connector type on request
Integrated bidirectional power coupler	Coupling factor 69 dB typ.
Power coupling connector	Type N fem. (rear panel)
Safety interlock	Connector type BNC
Digital control	Transistors, power supplies and internal temperature
Mismatch protection	Self limitation for reflected power > 1000 W
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: 480 l/sec max. (self contained fans)
Mains voltage	47-63 Hz, 3 phases (star or delta)
Rated current	7 kVA
Dimensions	600 x 840 x 1590 mm (30U) / 23.6 x 33.1 x 62.6 in (30U)
Weight	320 kg / 705 lb

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