SW 100

SW Range: 0.8 GHz - 4 GHz / 100 W CW



Prana SW 100

- Class A solid state
- Broadband (instantaneous single band): 0.8 GHz – 4 GHz
- Typical output power : 100 W CW
- Linear output power guaranteed with harmonics < -20 dBc
- Air cooling: self contained fans
- Can operate in full mismatch conditions without damage
- Upgradable to SW 200 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

- SW 100 D amplifier with:
  - Display
  - Digital control
  - IEEE 488 GPIB Communication
- SW 100 DC : SW 100 D with :
  - Integrated bidirectional coupler
  - display of instantaneous power

SW Range

- SW 25 => 25 W CW
- SW 45 => 45 W CW
- SW 80 => 80 W CW
- SW 100 => 100 W CW
- SW 200 => 200 W CW
- SW 420 => 420 W CW
- SW 800 => 800 W CW

Extra

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

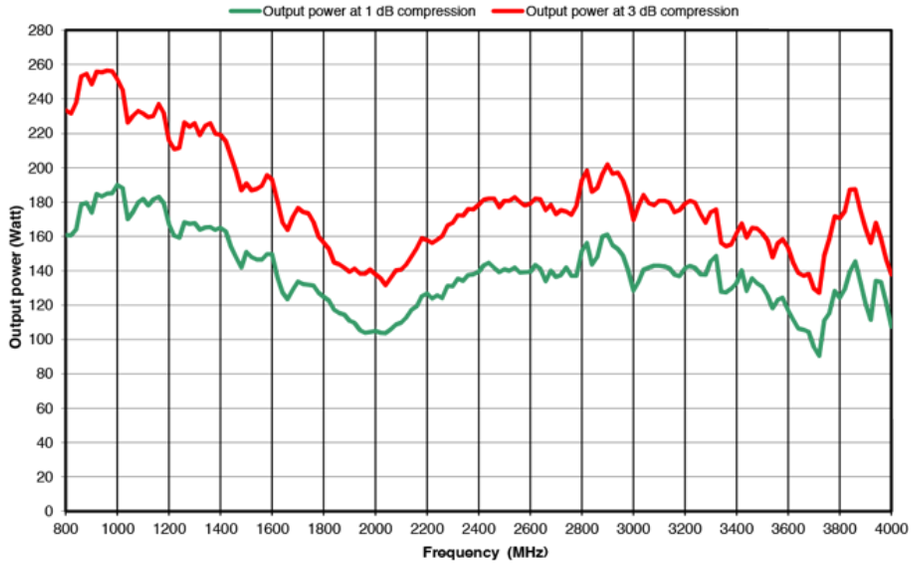
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Made in France

SW 100

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SW100 POWER AMPLIFIER 100W / 800 MHz - 4000 MHz



Specifications

Frequency bandwidth	0.8 GHz - 4 GHz
Typical output power	100 W
Power at 3 dB compression	90 W min. up to 3 GHz / 70 W min. from 3 GHz to 4 GHz *
Power at 1 dB compression	70 W min. up to 3 GHz / 60 W min. from 3 GHz to 4 GHz *
Harmonics distortion	H2,H3 < -20 dBc for the output power at 1 dB compression
Class type	Class A
Gain	56 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	200-250 VAC, 47-63 Hz, single phase
Rated current	4.8 A at 230 VAC
Dimensions	640 x 450 x 312 mm (7U) / 25.2 x 17.7 x 12.3 in (7U)
Weight	33 kg / 73 lb

SW 100 DC version :

Integrated bidirectional power coupler	Coupling factor 59 dB typ.
Power coupling connector	Type N fem. (rear panel)
Estimated output power losses due to the coupler	0.4 dB * => take account these power losses for the min output power

SW10006SEP2023 - Electrical and Mechanical Specifications subject to change without notice.

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