

SX 220/100

SX Range: 0.8 GHz - 6 GHz / 220 W CW - 100 W CW



Prana SX 220/100

- Class A solid state
- Broadband (instantaneous dual band): 0.8 GHz – 6 GHz
- Typical output power :
 - 220 W CW (0.8 – 3.2 GHz) and
 - 100 W CW (3.2 – 6 GHz)
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
 - P1dB > 150 W and H < -20 dBc up to 3.2 GHz and
 - P1dB > 60 W and H < -20 dBc from 3.2 GHz to 6 GHz
- Air cooling: self contained fans
- Can operate in full mismatch conditions without damage
- 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

- SX 220/100 D amplifier with:
 - Display
 - Digital control
 - IEEE 488 GPIB Communication
- SX 220/100 DC : SX 220/100 D with :
 - Integrated bidirectional coupler
 - display of instantaneous power

SX Range

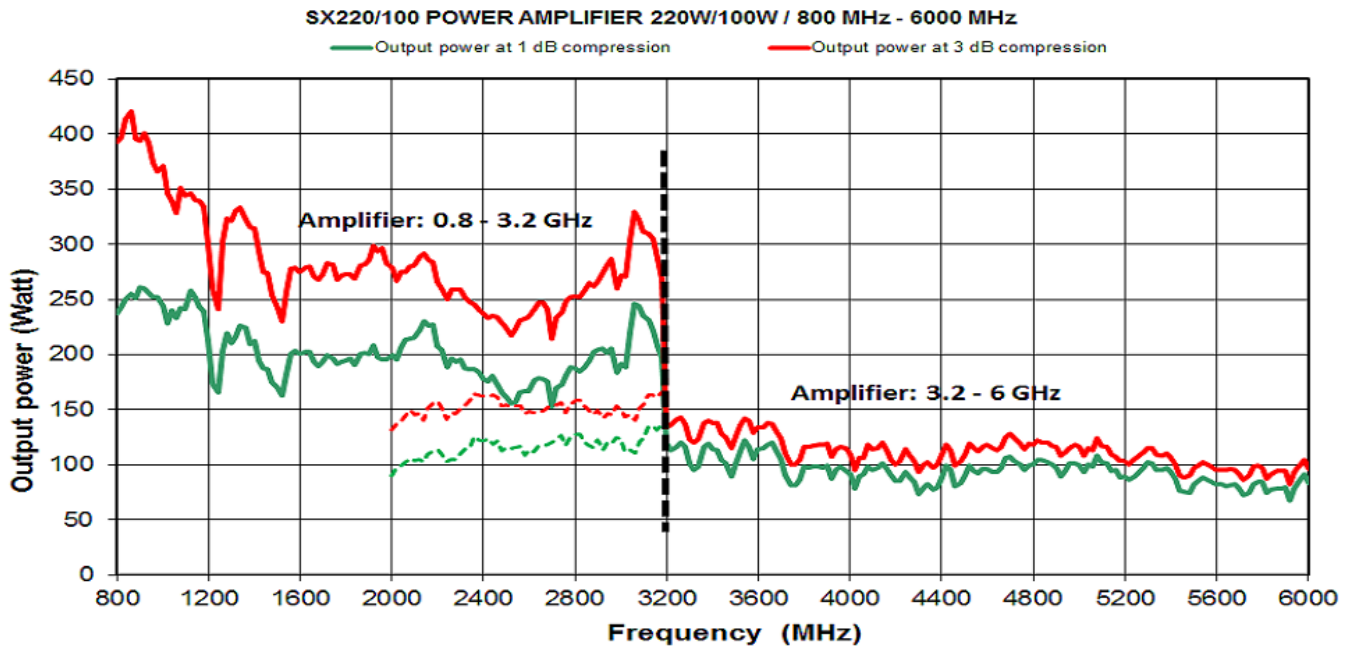
- SX 40/15 => 40 W CW - 15 W CW
- SX 40/30 => 40 W CW - 30 W CW
- SX 70/15 => 70 W CW - 15 W CW
- SX 70/30 => 70 W CW - 30 W CW
- SX 70/55 => 70 W CW - 55 W CW
- SX 120/30 => 120 W CW - 30 W CW
- SX 120/55 => 120 W CW - 55 W CW
- SX 120/100 => 120 W CW - 100 W CW
- SX 220/55 => 220 W CW - 55 W CW
- SX 220/100 => 220 W CW - 100 W CW

Extra

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

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Specifications

Frequency bandwidth	0.8 GHz - 6 GHz
Typical output power	220 W / 100 W
Power at 3 dB compression	190 W min. up to 3.2 GHz / 75 W min. up to 6 GHz *
Power at 1 dB compression	150 W min. up to 3.2 GHz / 60 W min. up to 6 GHz *
Harmonics distortion	H2,H3 < -20 dBc for the output power at 1 dB compression limit
Class type	Class A
Gain	53 dB
Linear power gain flatness	± 5 dB max
Mismatch tolerance	infinite without damage
Input impedance	50 ohms / VSWR: 2:1 max
Output impedance	50 ohms / VSWR: 2:1 max
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: 240 l/sec max. (self contained fans)
Power voltage	200-250 VAC, 47-63 Hz, single phase
Rated current	14 A at 230 VAC
Dimensions	600 x 840 x 1050 mm (18U) / 23.6 x 33.1 x 41.3 in (18U)
Weight	165 kg / 319 lb

SX 220/100 DC version :

Integrated bidirectional power coupler	Coupling factor 49 dB typ.
Power coupling connector	Type N fem. (front or rear panel)
Estimated output power losses due to the coupler	0.5 dB * => take account these power losses for the min output power



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