

# SX 450

SX Range (New): 0.6 GHz - 6 GHz / 450 W CW



## Prana SX 450

- Class A solid state
- Broadband (instantaneous single band): 0.6 GHz – 6 GHz
- Typical output power : 450 W CW
- Linear output power guaranteed with harmonics :
  - H2, H3 < -15 dBc min. at P1dB of compression min. up to 1 GHz
  - H2, H3 < -20 dBc min. at P1dB of compression above 1 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

- SX 450 DC amplifier with:
  - Multicolor LCD display with touch panel
  - Digital control
  - Ethernet, USB, GPIB, RS232 Communication
  - Temperature controlled fans
  - Safety interlock
  - Integrated dual directional coupler
  - display of instantaneous incident and reflected power

## SX Range (New)

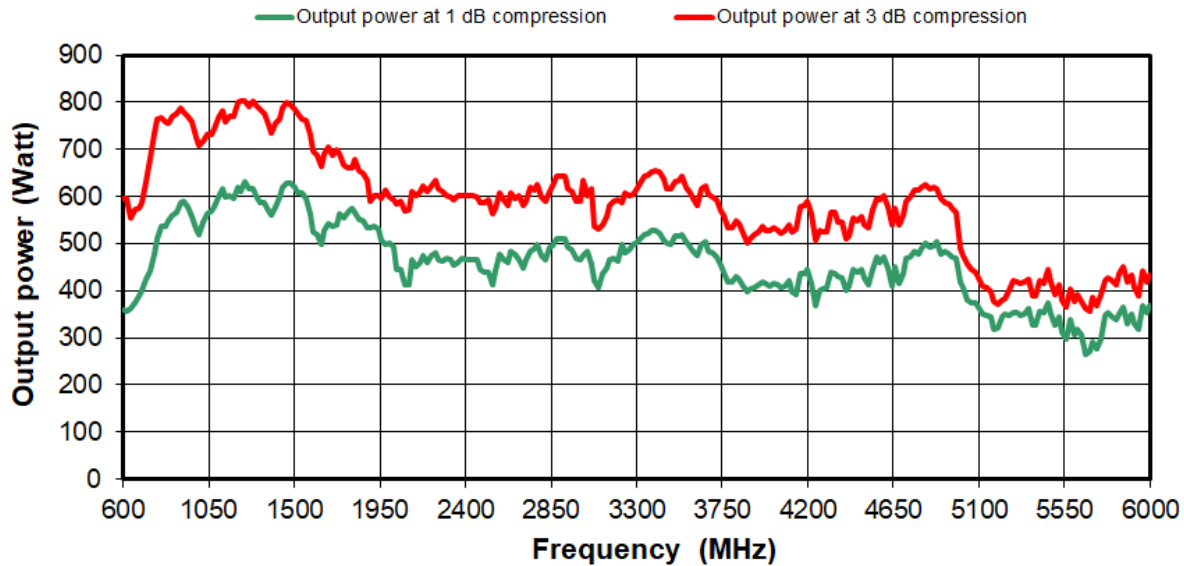
- SX 40 => 40 W CW
- SX 75 => 75 W CW
- SX 150 => 150 W CW
- SX 250 => 250 W CW
- SX 450 => 450 W CW
- SX 700 => 450 W CW

## Extra

- External coupler
- Switching matrix unit
- RF Power cable

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## Specifications

Frequency bandwidth	0.6 GHz - 6 GHz
Typical output power	450 W
Minimum power at 3 dB compression	500 W 0.6 - 5 GHz / 350 W 5 - 6 GHz
Minimum power at 1 dB compression	350 W 0.6 - 5 GHz / 250 W 5 - 6 GHz
Harmonics distortion < 1 GHz	H2,H3 : < -15 dBc min at P1dB of compression minimum
Harmonics distortion > 1 GHz	H2,H3 : < -20 dBc min at P1dB of compression
Class type	Class A
Gain	55 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
Integrated bidirectional power coupler	Coupling factor 62 dB typ.
Power coupling connector	Type N fem. (front or rear panel)
Safety interlock	Connector type BNC
Digital control	VSWR, Transistors, power supplies, temperatures and fans
Communication interfaces	Ethernet, USB, GPIB, RS232
Color LCD display with touch screen	Status, faults, direct and reverse instantaneous power
Ambient operating temperature	0 °C / + 35 °C
Room temperature storage	-20 °C / +70 °C
Cooling	Forced air with fan speed control: 240 l/sec max. (self-contained fans)
Power voltage	47-63 Hz, 3 phases (star or delta)
Rated current	5 kVA
Dimensions	600 x 840 x 1050 mm (18U) / 23.6 x 33.1 x 41.3 in (18U)
Weight	200 kg / 441 lb

SX45027JUN2025 - Electrical and Mechanical Specifications subject to change without notice.