

# SW 800

SW Range: 0.8 GHz - 4 GHz / 800 W CW



## Prana SW 800

- Class A solid state
- Broadband (instantaneous single band): 0.8 GHz – 4 GHz
- Typical output power : 800 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

- SW 800 DC amplifier with:
  - Display
  - Digital control
  - IEEE 488 GPIB Communication
  - Integrated bidirectional coupler
  - display of instantaneous power

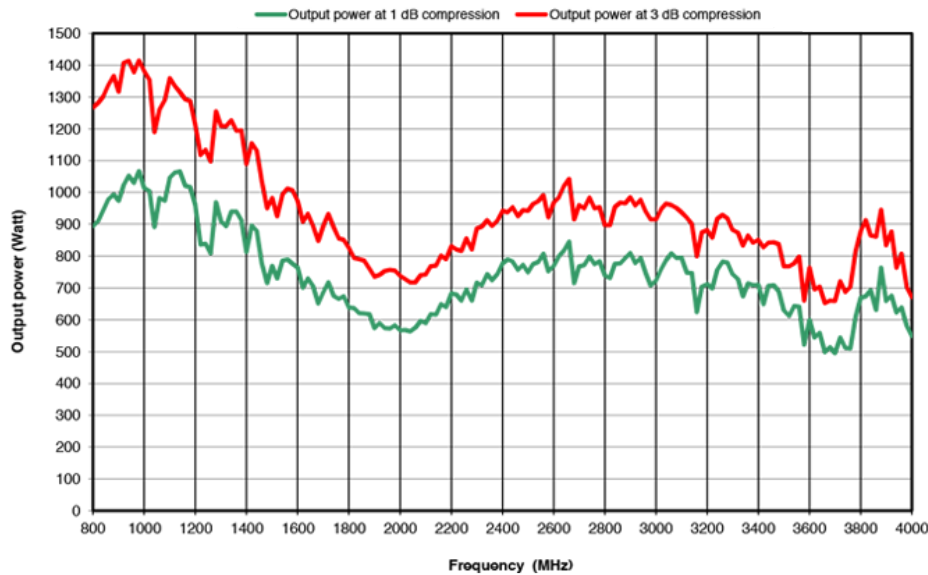
## SW Range

- SW 18 => 18 W CW
- SW 35 => 35 W CW
- SW 65 => 65 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
- RF Power cable
- Switching unit

SW800 POWER AMPLIFIER 800W / 800 MHz - 4 GHz



## Specifications

Frequency bandwidth	0.8 GHz - 4 GHz
Typical output power	800 W
Power at 3 dB compression	670 W min. up to 3 GHz / 570 W min. from 3 GHz to 4 GHz *
Power at 1 dB compression	520 W min. up to 3 GHz / 420 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	60 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 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 > 900 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	7.5 kVA
Dimensions	600 x 840 x 1590 mm (30U) / 23.6 x 33.1 x 62.6 in (30U)
Weight	320 kg / 705 lb