

SV 28

SV Range: 0.8 GHz - 3.2 GHz / 28 W CW



Prana SV 28

- Class A solid state
- Broadband (instantaneous single band): 0.8 GHz – 3.2 GHz
- Typical output power : 28 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-15 dBc minimum or <-20dBc typical
- Air cooling: self contained fans
- Can operate in full mismatch conditions without damage
- Upgradable to N-SV 48 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

- SV 28 S : standard amplifier
- SV 28 D amplifier with:
 - Multicolor LCD display with touch panel
 - Digital control
 - IEEE 488 GPIB, Ethernet, USB, RS232 Communications
 - Temperature controlled fans
 - Safety interlock
- SV 28 SC : SV 28 S with
 - Integrated bidirectional coupler
- SV 28 DC : SV 28 D with :
 - Integrated bidirectional coupler
 - display of instantaneous power

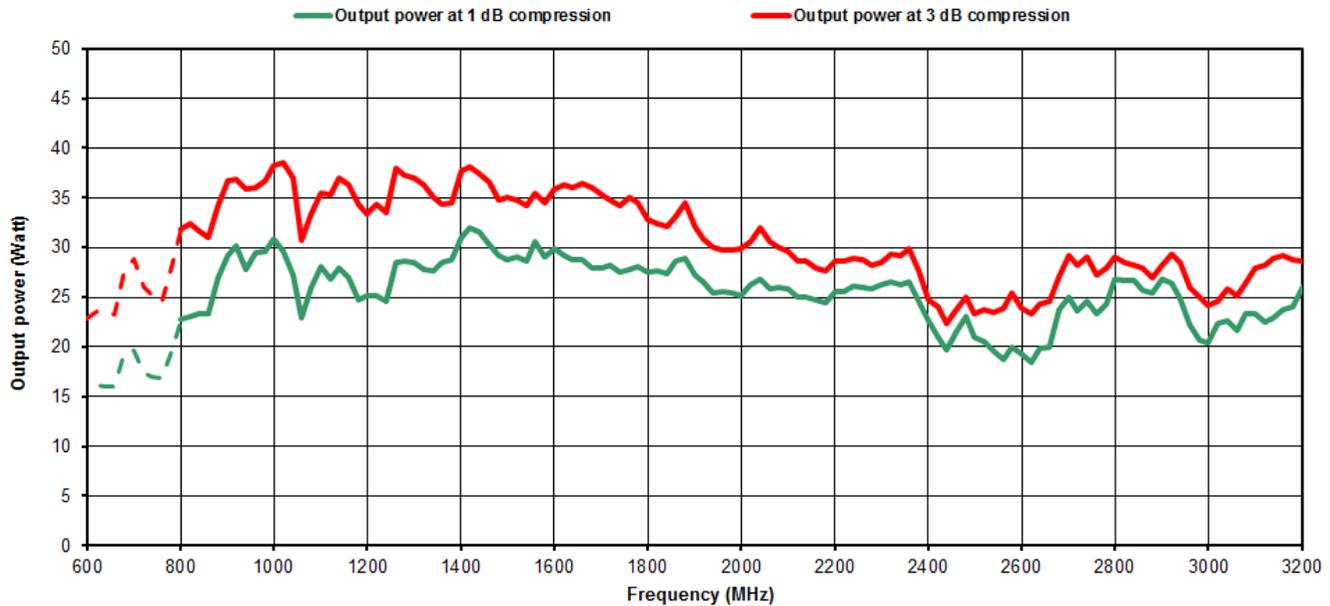
SV Range

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

SV2802DEC2024 - Electrical and Mechanical Specifications subject to change without notice.



Specifications

Frequency bandwidth	0.8 GHz - 3.2 GHz
Typical output power	28 W
Power at 3 dB compression	20 W min. up to 2.5 GHz / 15 W min. from 2.5 GHz to 3.2 GHz
Power at 1 dB compression	15 W min. up to 2.5 GHz / 13 W min. from 2.5 GHz to 3.2 GHz
Harmonics distortion	H2, H3 < -15 dBc min. or < -20 dBc typical for the output power at 1 dB compression
Class type	Class A
Gain	51 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	0 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
Ambient operating temperature	0 °C / + 35 °C
Room temperature storage	-20 °C / +70 °C
Cooling	Forced air with fan speed control (for D version): 60 l/sec max. (self contained fans)
Power voltage	90-250 VAC, 47-63 Hz, single phase
Rated current	2.2 A at 110 VAC / 1.0 A at 230 VAC
Dimensions	640 x 450 x 89 mm (2U) / 25.2 x 17.7 x 3.5 in (2U)
Weight	12 kg / 26.5 lb

SV 28 D version :

Safety interlock	Connector type BNC
Digital control	Transistors, power supplies, temperatures and fans
Communication interface	Ethernet, USB, GPIB, RS232
Color LCD Display with touch screen	Status, faults, (direct and reverse instantaneous power for DC version)

SV 28 SC and SV 28 DC versions :

Integrated bidirectional power coupler	Coupling factor 50 dB typ. (SC version) / 59 dB typ. (DC version)
Power coupling connector	Type N fem. (front or rear panel)
Estimated output power losses due to the coupler	0.3 dB