

SU 600

SU Range: 1 GHz - 2.5 GHz / 600 W CW



Prana SU 600

- Class A solid state
- Broadband (instantaneous single band): 1 GHz – 2.5 GHz
- Typical output power : 600 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
 - P1dB > 500 W and H < -20 dBc up to 1.6 GHz and
 - P1dB > 450 W and H < -20 dBc from 1.6 GHz to 2.5 GHz
- Air cooling: self contained fans
- Can operate in full mismatch conditions without damage
- Upgradable to SU 1200 possible (32U)
- 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

- SU 600 DC amplifier with:
 - Display
 - Digital control
 - IEEE 488 GPIB Communication
 - Integrated bidirectional coupler
 - display of instantaneous power

SU Range

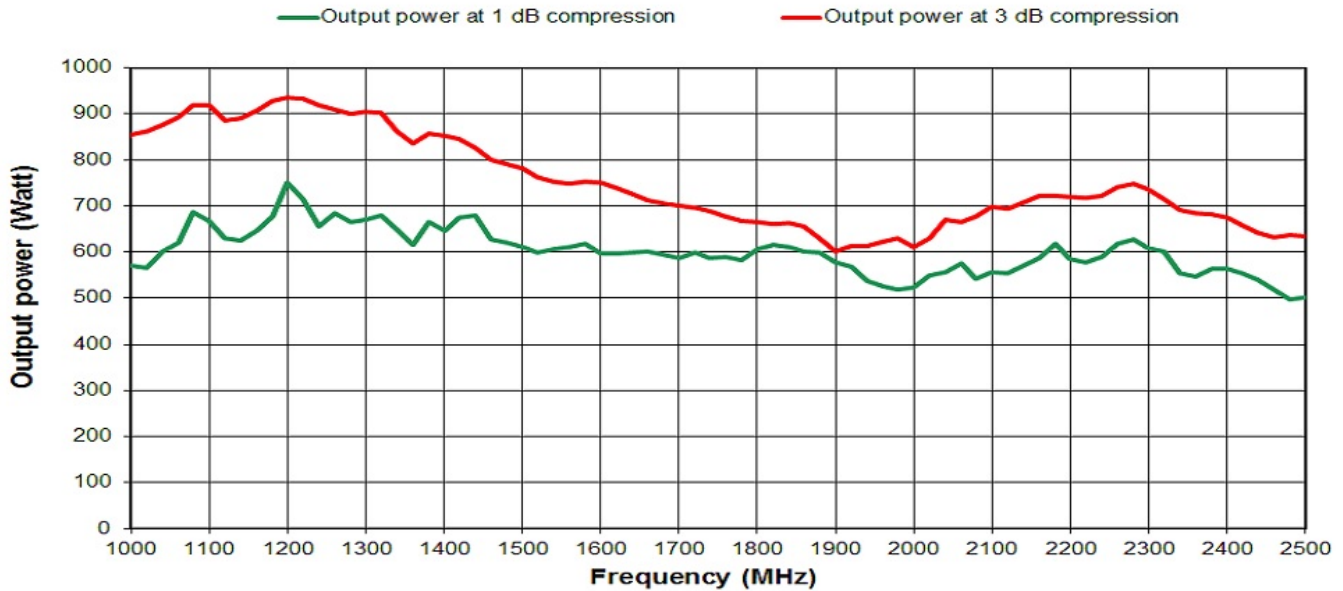
- SU 175 => 175 W CW
- SU 300 => 300 W CW
- SU 600 => 600 W CW
- SU 1200 => 1200 W CW

Extra

- External coupler
- RF Power cable
- Switching unit

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Specifications

Frequency bandwidth	1 GHz - 2.5 GHz
Typical output power	600 W
Power at 3 dB compression	600 W min. up to 1.6 GHz / 520 W min. from 1.6 GHz to 2.5 GHz
Power at 1 dB compression	500 W min. up to 1.6 GHz / 450 W min. from 1.6 GHz to 2.5 GHz
Harmonics distortion	H2,H3 < -20 dBc for the output power at 1 dB compression limit
Class type	Class A
Gain	56 dB
Linear power gain flatness	± 4 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)
Power coupling connector	Type N fem. (rear panel)
Safety interlock	Connector type BNC
Mismatch protection	Self limitation for reflected power > 450 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: 240 l/sec max. (self contained fans)
Mains voltage	47-63 Hz, 3 phases (star or delta)
Rated current	4 kVA
Dimensions	600 x 840 x 1050 mm (18U) / 23.6 x 33.1 x 41.3 in (18U)
Weight	230 kg / 506 lb

SU60002DEC2024 - Electrical and Mechanical Specifications subject to change without notice.