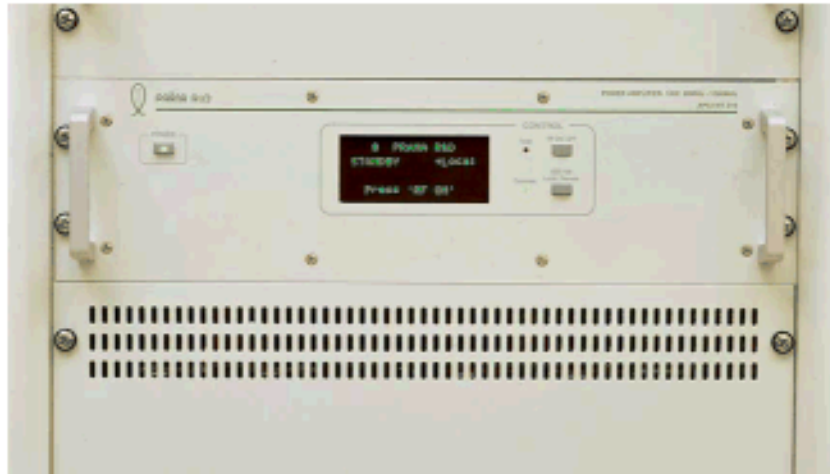


A class Solid State
High VSWR operation

Application : Radiated EMC



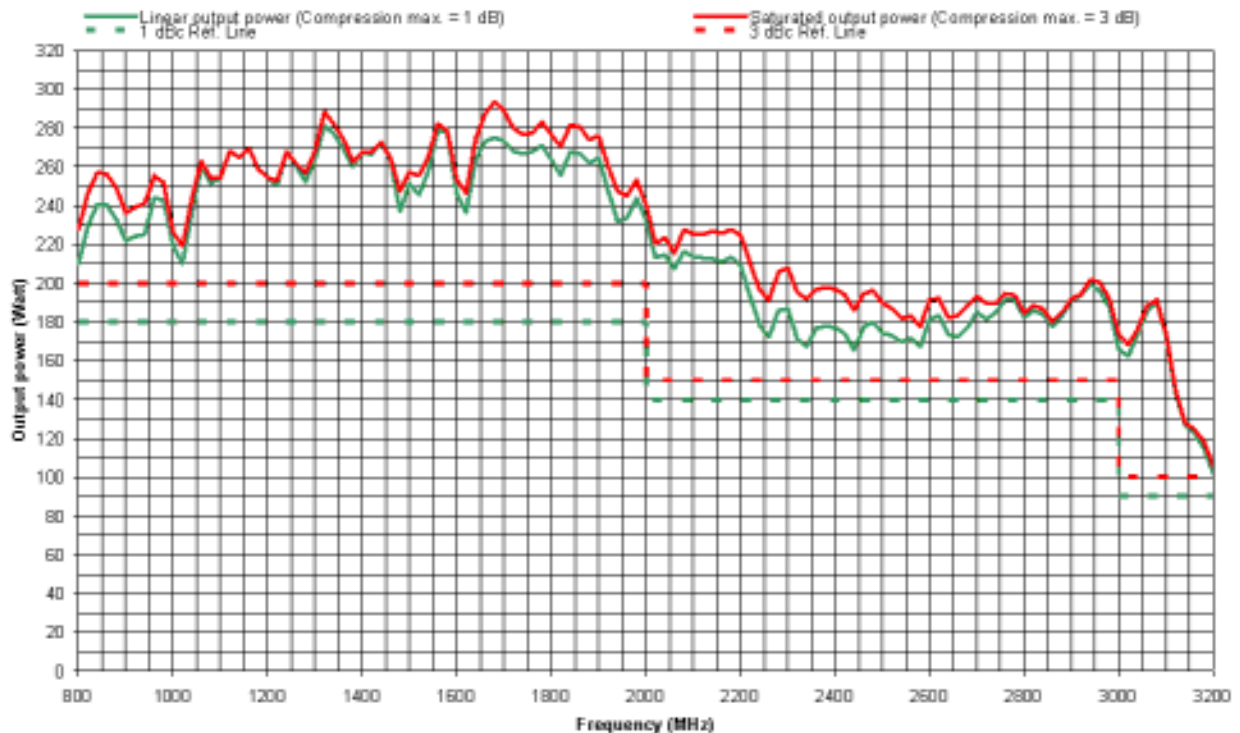
The AP32 SV220A power amplifier operates in a symmetric mode with high linearity capability. Solid state power modules are combined with high performance proprietary devices.

A high linear power is available and allows a high field output level with typical broadband antennas.

PRANA EMC amplifiers are designed to withstand excessive VSWR of typical EMC field generation environment.

The AP32 SV220A amplifier is compatible with any automatic test environment thanks to additional measurement and communication features.

The up to date and modern concept of the AP32 SV220A amplifier warrants the user of a permanent internal signal levels monitoring and allows local or remote full diagnostic capability.



Output characteristics

Nominal power	200 W
Single Instantaneous range	800 – 3200 MHz
Power at 3 dB compression max.	200 W min. up to 2 GHz / 150 W min. up to 3 GHz / 100 W up to 3.2GHz
Power at 1 dB compression max.	180 W min. up to 2 GHz / 140 W min. up to 3 GHz / 90W up to 3.2 GHz
Gain	61 dB typ., 57 dB min. (up to 3GHz)
Linear power gain flatness	± 3,5 dB typ., ± 4 dB max.
Nominal output load	50 Ohms
Harmonic distortion at 1dB compression	H2 < -20 dBc H3 < -20 dBc
Spurious	< -60 dBc
Noise figure	< 20 dB typ. < 25 dB max

Input characteristics

Input level for nominal output power	0 dBm typ.
Input impedance	50 Ohms
Input VSWR	2:1 max.
Maximum input level	+10 dBm

External interface

RF Input connector (1)	Coaxial N fem.
RF output connector (1)	Coaxial N fem.
Incident power sampling connector (1)	Coaxial N fem.
Reflected RF power sampling connector (1)	Coaxial N fem.
Communication IEEE 488 GPIB	Option 002
Digital display	Yes
LED control indicator	Fault, Controller Ok
Forward and direct power display	Option 003
Manual controls	Power On/Off – menu key functions

Environment and Protections

Ambient temperature range in operation	0°C / +35°C
Storage ambient temperature range	-20°C / +70°C
Cooling	Air, 360 l/sec
Protections	Infinite VSWR, Temperature, Power Supply, Bias Voltage
EMC	 certified

Electrical characteristics

Supply voltage (3)	200-250 VAC, 50-60Hz Single phase
Nominal current	9.7 A at 230V
Power in	< 2240 VA

Mechanical outline

Packaging	19" Cabinet
High (standard)	1.05 m (18U)
Width	600 mm
Depth	840 mm
Weight	220 kg

- (1) Rear panel standard.
(2) Other voltage or frequency on request.