

**A class Solid State
High VSWR operation**

Application : Radiated EMC

Designed and manufactured in Europe, the AP32 SV150A power amplifier operates in a symmetric mode with high linearity capability.

Solid state power modules are combined with high performance proprietary devices.

PRANA back ground into high power and broadband EMC products in last 10 years brings products to high reliability.



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 SV150A 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 SV150A amplifier warrants the user of a permanent internal signal levels monitoring and allows local or remote full diagnostic capability.

Output characteristics

Nominal power	50 W
Single Instantaneous range	800 – 3000 MHz
Power at 3 dB compression max. (1)	50 W min. up to 2.3 GHz / 40 W min. up to 3 GHz
Power at 1 dB compression max. (1)	40 W min. up to 2.3 GHz / 35 W min. up to 3 GHz
Gain	47 dB typ., 44 dB min.
Linear power gain flatness	± 3dB typ, ± 3.5 dB max.
Nominal output load	50 Ohms
Harmonic distortion at 1dB compression	H2 <-20 dBc H3 <-20 dBc
Spurious	< -60dBc
Noise figure	< 15dB typ.


Input characteristics

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

External interface

RF Input connector (2) (3)	Coaxial N fem.
RF output connector (2) (3)	Coaxial N fem.
Incident power sampling connector (2) (3)	Coaxial N fem. (Option 001)
Reflected RF power sampling connector (2) (3)	Coaxial N fem. (Option 001)
Communication IEEE 488 GPIB	(Option 002)
Digital display	Yes
LED control indicator	Fault, Controller Ok
Forward and direct power display	Yes (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, 60 l/sec max.
Protections	Infinite VSWR, Temperature, Power Supply, Bias Voltage
EMC	 certified

Electrical characteristics

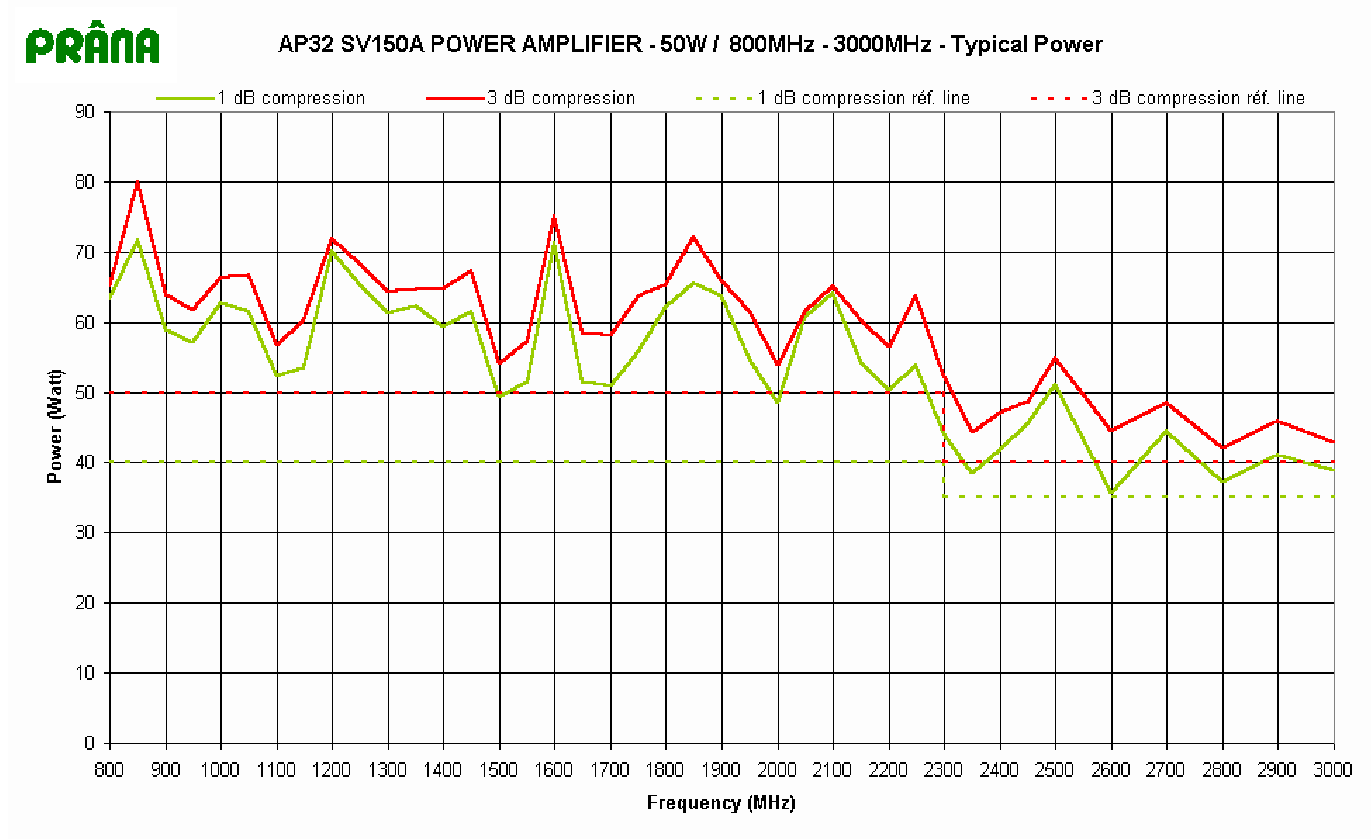
Supply voltage (3)	230 VAC, +/- 10% 50-60Hz Single phase
Nominal current	2.0 A
Power in	< 500 VA

Mechanical outline

Packaging	19" RACK
High (standard)	178 mm (4U)
Width	450 mm
Depth	630 mm
Weight	60 kg

- (1) Without Option 001 (Internal coupler).
 (2) Front panel standard.
 (3) Other type on request.
 (4) Other voltage or frequency on request.

Power graph ¹



¹ Typical output power without Option 001 : internal bi-directional coupler.