

**A class Solid State
High VSWR operation**

Application : Radiated EMC

Designed and manufactured in France, the AP32 SW150 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 20 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 SW150 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 SW150 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 – 4200 MHz
Power at 3 dB compression max. (1)	45 W min. up to 4 GHz / 18 W up to 4.2 GHz
Power at 1 dB compression (1)	35 W min. up to 4 GHz / 15 W up to 4.2GHz
Gain	47 dB typ.
Linear power gain flatness	± 3.5 dB typ. / ± 4 dB max. (up to 4GHz)
Nominal output load	50 Ohms
Harmonic distortion at 1dB compression or nominal power	H2 <-20 dBc H3 <-20 dBc
Spurious	< -60dBc
Noise figure	< 25dB 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)	Type N fem.
RF output connector (2)	Type N fem.
Incident and reflected RF power sampling connector (2)	Type N fem. (option 001)
Safety interlock	Yes
Communication IEEE 488 GPIB	Yes
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

Electrical characteristics

Supply voltage	90 -250 VAC, 47-63Hz, Single phase
Nominal current	5 A at 110 VAC – 2.4 A at 230 V
Power in	< 550 VA

Mechanical outline

Packaging	19" RACK
High (standard)	178 mm (4U)
Width	450 mm
Depth	630 mm
Weight	40 kg

- (1) Without Option 001 (Internal coupler).
(2) Front panel standard.

Power graph

