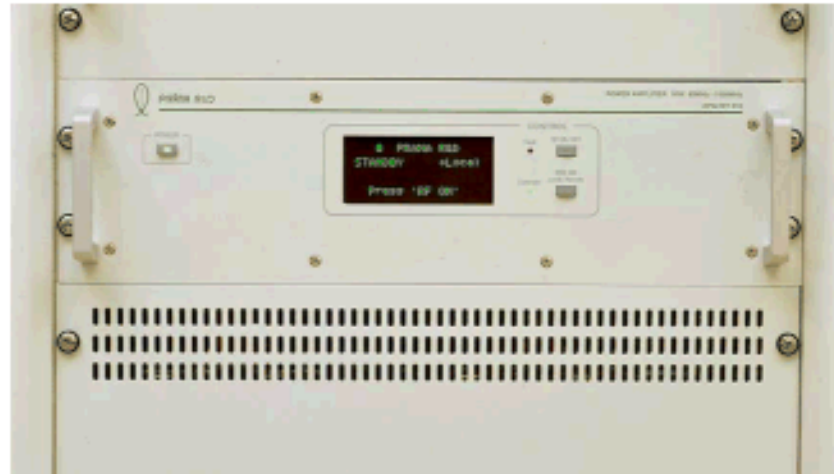


A class Solid State  
High VSWR operation

Application : Radiated EMC



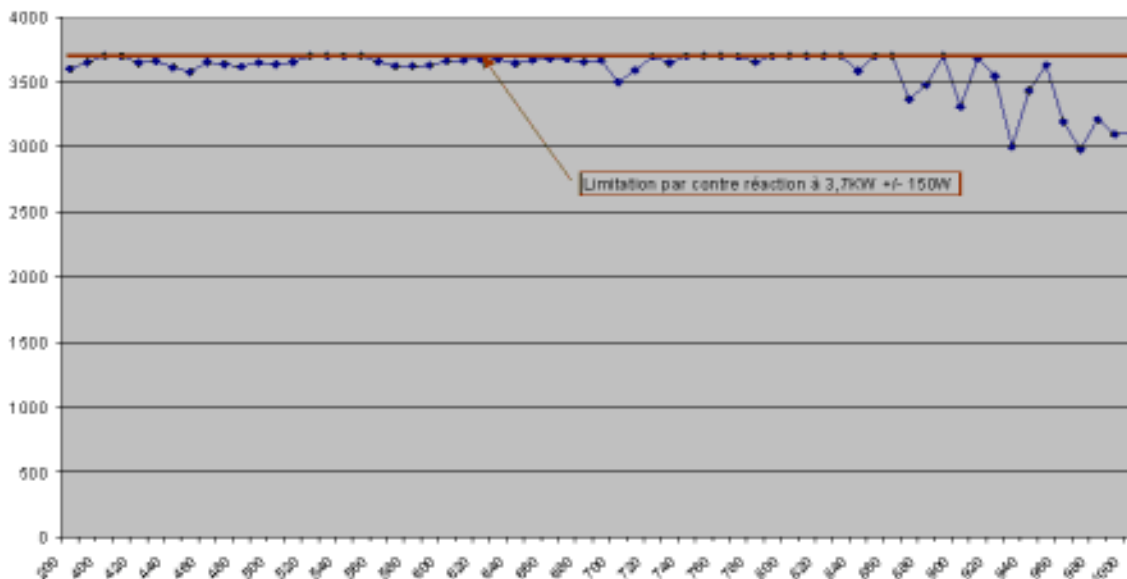
The AP32 NT330 power amplifier operates in a symmetric mode with high linearity capability. Solid state power modules are combined with high performance proprietary devices.

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 and in steering mode application.

The AP32 NT330 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 NT330 amplifier warrants the user of a permanent internal signal levels monitoring and allows local or remote full diagnostic capability.

Courbe typique du AP32 NT330 @3dB de compression



### Output characteristics

|   |   |
|---|---|
| Nominal power   | 3000 W  |
| Single Instantaneous range                              | 200 – 1000 MHz  |
| Power at 3 dB compression                               | 3500 W min. up to 800 MHz / 3000 W min. up to 1 GHz   |
| Gain  | 65 dB typ., 64 dB min.  |
| Linear power gain flatness                              | ± 3 dB typ., ± 3.5 dB max.  |
| Nominal output load                                     | 50 Ohms   |
| Reflected power on load mismatch                        | 1500W full time or 2500W during 10 seconds or 3000 W during 5 seconds in reverse power without power reduction feed back loop |
| Harmonic distortion at 1dB compression or nominal power | H2 ≤ -25 dBc, -30 dBc typ.<br>H3 ≤ -20 dBc, -25 dBc typ.  |
| Quality Amplitude Modulation @ 1dBc for 80% AM (1KHz)   | +/- 3 % Typical and +/- 5 % Max.  |
| 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 EIA 1 5/8 fem.            |
| Incident power sample connector (2)     | Coaxial N fem.                    |
| Reflected RF power sample connector (2) | Coaxial N fem.                    |
| Interlock                               | Yes                               |
| Communication IEEE 488 GPIB             | Yes                               |
| Digital display                         | Yes                               |
| LED control indicator                   | Fault, Controller Ok              |
| Forward and direct power display        | Yes                               |
| 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, 960 l/sec   |
| Protections                            | Infinite VSWR, Temperature, Power Supply, Bias Voltage |
| EMC                                    | CE certified   |

### Electrical characteristics

|                    |                                       |
|--------------------|---------------------------------------|
| Supply voltage (3) | 230/400 VAC, +/- 10% 50-60Hz 3 phases |
| Nominal current    | < 75 A phase 1 and 2 ; < 50 A phase 3 |
| Power in           | < 45 kVA                              |

### Mechanical outline

|                 |                                |
|-----------------|--------------------------------|
| Packaging       | 3 x 19" cabinets on gum wheels |
| High (standard) | 3 x 1,940 m (38U)              |
| Width / Depth   | 3 x 600 mm / 840 mm            |
| Weight          | 3 x 450 kg                     |

- (1) Rear panel standard.  
 (2) Rear panel standard.  
 (3) 3 phases + Neutral + Protective ground.