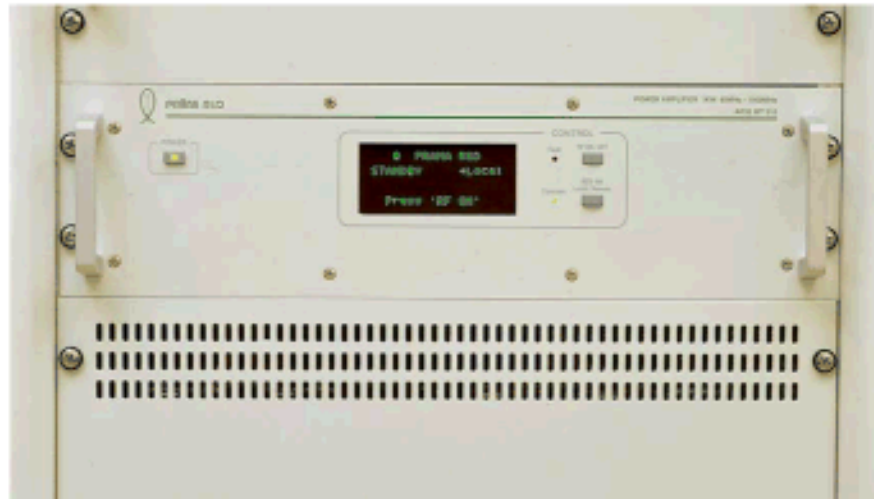


A class Solid State
High VSWR operation

Application : Radiated EMC



The AP32 LT235 power amplifier operates in a symmetric mode with high linearity capability. Solid state power modules are combined with high performance proprietary devices.

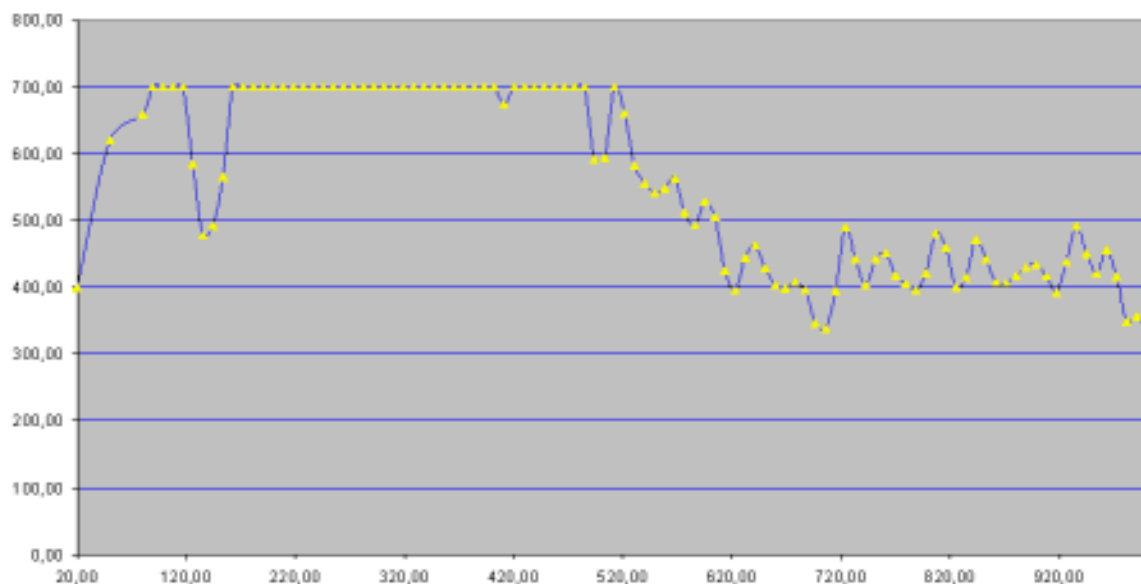
A high linear power is available and allows a high field output level with typical broadband antennas.

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

The AP32 LT235 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 LT235 amplifier warrants the user of a permanent internal signal levels monitoring and allows local or remote full diagnostic capability.

AP32 LT235 / Power @ 1dB of compression



Output characteristics

Nominal power	400 W
Single Instantaneous range	20 – 1000 MHz
Power at 3 dB compression (1)	340W min. up to 80MHz / 500 W min. up to 600 MHz / 350 W min. up to 1 GHz.
Power at 1 dB compression max. (1)	280W up to 80MHz / 400W min. up to 600 MHz / 300 W min. up to 1 GHz
Gain	56 dB typ., 53 dB min.
Linear power gain flatness	± 2 dB typ., ± 3 dB max.
Nominal output load	50 Ohms
Reflected power on load mismatch	100% reverse power without power reduction feed back loop
Harmonic distortion at 1dB compression or nominal power	H2 < -25 dBc, -30 dBc typ. 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 (2)	Coaxial N fem.
RF output connector (2)	Coaxial N fem.
Incident power sample connector (3)	Coaxial N fem. (Option 001)
Reflected RF power sample connector (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	Option 003
Manual controls	Power On/Off – menu key functions

Environment and Protections

Ambient temperature range in operation	0°C / +40°C
Storage ambient temperature range	-20°C / +70°C
Cooling	Air, 960 l/sec
Protections	Infinite VSWR, Temperature, Power Supply, Bias Voltage
EMC	 certified

Electrical characteristics

Supply voltage (4)	230/400 VAC, +/- 10% 50-60Hz 3 phases
Nominal current	< 10 A phase 1 and 2
Power in	< 5 kVA

Mechanical outline

Packaging	19" cabinet on wheels
High (standard)	1,32 m (24U)
Width / Depth	600 mm x 840 mm
Weight	180 kg

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