

**A class Solid State
High VSWR operation**

Application : Radiated and Conducted EMC

Designed and manufactured in France, the AP32DP280 power amplifier operates in a symmetric mode with high linearity capability.

Its very wide bandwidth allows a full Bulk Current Injection test with no band switching.

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 at low frequencies 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 or current injection load mismatch.

The AP32DP280 amplifier is compatible with any automatic test environment thanks to additional measurement and communication features.

The up to date and modern concept of the AP32DP280 amplifier warrants the user of a permanent internal signal levels monitoring and allows local or remote full diagnostic capability.



Output characteristics

Nominal power	800 W
Single Instantaneous range	10kHz – 250MHz
Power at 3 dB compression	800 W min. up to 250MHz
Power at 1 dB compression	600 W min. up to 250MHz
Gain	64 dB typ.
Linear power gain flatness	± 1 dB typ. / ± 2.5 dB max.
Nominal output load	50 Ohms
Reflected Power on load mismatch	800 W reverse power without power reduction feed back loop
Harmonic distortion at 1dB comp. or nominal power	H2 <-25 dBc / -30 dBc typ. H3 <-20 dBc / -25 dBc typ.
Spurious	< -50dBc
Noise figure for F>50MHz	< 20dB typ. / 25dB max.

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 (1)	Type N fem.
RF output connector (1)	Type 7/16 fem.
Incident and reflected power sample connector (1)	Type N fem.
Safety 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, 240 l/sec max.
Protections	Infinite VSWR, Temperature, Power Supply, Bias Voltage
EMC	CE certified

Electrical characteristics

Supply voltage (2)	230/400 V AC, +/- 10% 47-63Hz 3 phases + neutral (star) 110/207 V AC, +/- 10% 47-63Hz 3 phases (delta) 200-250 V AC, 47-63Hz, 1 phase
Power in	< 5 kVA

Mechanical outline

Packaging	19" cabinet on wheels
High (standard)	1,05 m (18U)
Width	600 mm
Depth	840 mm
Weight	230kg

- (1) Rear panel standard.
(2) To be specified by the user

Power graph

