



FPAx_F

Medium Power FM Amplifiers



Models

FPA1F	700W
FPA2F	1500W
FPA4F	3000W
FPA8F	5000W



The FM amplifier line of the **FPAx_F** family was designed with great care for consumption and bulk, oversizing all of the components: LDMOS, fans and power supply, thus expanding the redundancy concept.

The active devices belong to the 6th generation of LDMOS, very robust and with high gain, allowing to create very compact amplifiers.

The switching power supply wide input range are tested to sustain network bursts up to 4kV. Greatly efficient, they assure a power factor close to one in any load condition.

The heat dissipation in high-power models (3 and 5kW) is performed by high-quality, very quiet fans.

The usage of a high-performance dissipator and the high efficiency of active devices allowed a remarkable decrease in weight, making transport and installation simpler.

Designed to assure high reliability if connected directly to an antenna system, these amplifiers are well-fit to a modular use in higher-power amplification systems.

Effective software algorithms protect the equipment from any cause of breakdown.

The output power is dynamically decreased to

conservative values in case of environmental overheating or reflected power from the antenna system.

The loads of the internal combiners are sized to work indefinitely even in unbalancing conditions, thus granting a continuous service without interruptions. A multi-function display allows to check at any moment all of the parameters of the amplifier and to adjust the output power.

All of the functions of these amplifiers are remotable through RS485 serial interface, or optionally through SNMP protocol or WEB SERVER.

Main characteristics

- Air Cooling / Very High Efficiency
- Restrained Dimensions and Weight
- Multi-platform Remote Control
- USB Controllable / Temperature and Reflected Power Foldback

Display readings

- LDMOS Voltages/Currents
- Input/Output Power
- Reflected Power and Temperature

Protections against

- Over Voltage/Over Current
- Forward and Reflected Power
- Overdrive

FPAx F Medium Power FM Amplifiers

Technical characteristics

Amplifier Type:	FPA1F	FPA2F	FPA4F	FPA8F
Output Power [W]	700	1500	3000	5000
Nominal Input Power [W]	8	10	20	30
Remote Control	RS485, USB	RS485, USB	RS485, USB	RS485, USB
Power Supply Voltage	90 - 260VAC	90 - 260VAC	230VAC ±15%	3P+N 400V ±15%
Power Supply Frequency	47 - 63Hz	47 - 63Hz	47 - 63Hz	47 - 63Hz
Power Factor	> 0.98	> 0.98	> 0.98	> 0.98
Input Connector	N Female	N Female	N Female	N Female
Output Connector	7/16" Female	7/16" Female	EIA 7/8"	EIA 7/8"
Power Consumption [VA], typical	1000	2200	4700	7500
Rack	2U	2U	4U	6U
Airflow [m³/h]	180	180	600	600
Weight [kg]	13	13	30	45
Temperature [°C]	-5 to +45	-5 to +45	-5 to +45	-5 to +45

Specifications and characteristics are subject to change without notice