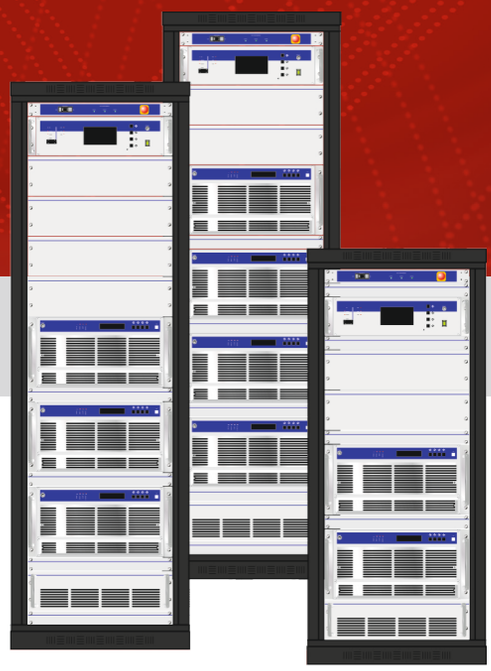
FPAxF

High Power FM Amplifiers



The **FM amplifier line** of the **FPAxF family** was designed with great care for consumption and bulk, oversizing all of the components: LDMOS, fans and power supply, thus expanding the redundance concept.
For each fundamental element there are at least two components. The amplifier is built by connecting in parallel 3kW or 5kW modules.
Each of these modules is completely independent, so that it can be used in standalone mode in emergencies or for network reconfigurations.
The heat dissipation 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.
Effective software algorithms protect the equipment from any cause of breakdown.
The output power is dinamically decreased to conservative values in case of environmental overheating or reflected power from the antenna system.

The loads of the internal combiners are sized so to work indefinitely even in unbalancing conditions, thus granting a continuous service without interruptions.
The central control unit of the device oversees all of the general parameters and those of the individual amplifier modules. It allows remote control by means of a serial connection through the WEB SERVER or SNMP (optional) interface. In the DUAL DRIVER version directly controls the exciters, manages the switch of the coaxial relay and distributes the base band signals.

Main characteristics

- Air Cooling
- Very High Efficiency
- Restrained Dimensions and Weight
- Multi-platform Remote Control

Display readings

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

Protections against

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

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Technical characteristics

Amplifier Type:	FPA2X4F	FPA2X8F	FPA3X8F	FPA4X8F
Output Power [W]	5500	10000	15000	20000
Nominal Input Power [W]	30	60	90	120
Remote Control	RS485, USB	RS485, USB	RS485, USB	RS485, USB
Power Supply Voltage	3P+N 400V ±15%	3P+N 400V ±15%	3P+N 400V ±15%	3P+N 400V ±15%
Power Supply Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Power Factor	> 0.98	> 0.98	> 0.98	> 0.98
Input Connector	N Female	N Female	N Female	N Female
Output Connector	EIA 1+5/8"	EIA 1+5/8"	EIA 1+5/8"	EIA 3+5/8"
Power Consumption [VA], typical	8800	16800	24200	32000
Rack	28U	28U	42U	42U
Airflow [m^3/h]	1500	3000	3000	4000
Weight [kg]	220	260	350	450
Temperature [°C]	-5 to +45	-5 to +45	-5 to +45	-5 to +45

Specifications and characteristics are subject to change without notice

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