

## HIGH EFFICIENCY 1KW FM AMPLIFIER FMA 1000 HE

The 1KW FM amplifier **FMA 1000 HE** has been created by the OMB center of development for high efficiency amplifiers. It has >73% efficiency and an approximate consumption of 1300VA at 230Vac, so it pays for itself in a short period of time due to its low consumption.



### MAIN ADVANTAGES

- Typical AC efficiency >73% and typical RF efficiency of 84%.
- An amplifying module of 1.200W with MOSFET technology.
- TFT screen and touch keyboard to control and to visualize operation parameters.
- Memory recording of events.
- Speed control of cooling fans according to temperature of power modules so as to optimize consumption and to decrease acoustic contamination.
- Advanced protection against load mismatches without transmission cuts and fast protection in case of excessive reflected power and/or excessive input power.
- Analog telemetry, digital remote control and telemetry RS232, remote control by opened/closed contacts
- Low pass filter, Mains EMI filter and internal single-phase transient suppressor.
- Automatic power reduction at night when used in combination with the EM 25 DIG PLUS transmitter.
- Automatic power reduction in case of high temperature, the equipment returns automatically to its rated power value when the temperature reaches back an average value.
- Automatic power reduction in case of excessive reflected power.
- Automatic voltage control for efficiency optimization.

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**GENERAL CHARACTERISTICS**

<b>FREQUENCY RANGE</b>	87.5-108MHz
<b>INPUT RETURN LOSS</b>	-20dB
<b>INPUT POWER</b>	<15W
<b>OUTPUT POWER</b>	1000W nominal, manual and automatic adjustable
<b>POWER GAIN</b>	19.2dB minimum
<b>TOTAL EFFICIENCY</b>	>73% typical
<b>RF EFFICIENCY</b>	84% typical
<b>COOLING</b>	Forced air, speed control of fans
<b>HARMONICS LEVEL</b>	-80dBc
<b>INPUT/OUTPUT IMPEDANCE</b>	50Ω
<b>RF INPUT CONNECTOR</b>	N(F)
<b>RF OUTPUT CONNECTOR</b>	7/16" or EIA 7/8"
<b>RF MONITOR CONNECTOR</b>	BNC(F)
<b>POWER SUPPLY</b>	230VAC ±15% → 195 ÷ 265VAC, 50/60Hz
<b>CONSUMPTION</b>	1300VA (@1000W output power)
<b>PROTECTIONS</b>	Reflected power, forward power, overdrive, and overcurrent in power modules. Smart temperature protection. Ultra-fast protection against reflected and input power. Real time registration of events. Exciter's inhibition
<b>TELEMETRY AND REMOTE CONTROL</b>	Analog telemetry (direct and reflected power measurements). Digital telemetry and remote control RS232. Remote control by opened/closed contacts
<b>OPERATION TEMPERATURE</b>	-5 to +40°C
<b>WEIGHT</b>	20Kg approx. (without rack)
<b>DIMENSIONS</b>	3 standard rack units of 19" (height), 650mm (depth)

*\* The images and/or technical specifications are subject to change without previous notice.*

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