HIGH EFFICIENCY 2KW FM AMPLIFIER
FMA 2000 HE HPPS

The 2KW FM amplifier **FMA 2000 HE HPPS (Hot Plug Power Supply)** has been created by the OMB center of development for high efficiency amplifiers. It has >73% efficiency and an approximate consumption of 2600VA 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%.
- Two amplifying modules of 1.200W with MOSFET technology.
- Two independent switching power supplies connected in parallel to maintain the equipment working in case any of them fails, removable and interchangeable during operation.
- 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.
- Hot plug and hot swappable power supplies in amplifier.

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GENERAL CHARACTERISTICS

FREQUENCY RANGE	87.5-108MHz
INPUT RETURN LOSS	-20dB
INPUT POWER	<15W
OUTPUT POWER	2000W nominal, manual and automatic adjustable
POWER GAIN	19.2dB minimum
TOTAL EFFICIENCY	>73% typical
RF EFFICIENCY	84% typical
COOLING	Forced air, speed control of fans
HARMONICS LEVEL	-80dBc
INPUT/OUTPUT IMPEDANCE	50Ω
RF INPUT CONNECTOR	N(F)
RF OUTPUT CONNECTOR	7/16"or EIA 7/8"
RF MONITOR CONNECTOR	BNC(F)
POWER SUPPLY	230VAC ±15% → 195 ÷ 265VAC, 50/60Hz
CONSUMPTION	>2600VA (@2000W output power)
PROTECTIONS	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
TELEMETRY AND REMOTE CONTROL	Analog telemetry (direct and reflected power measurements). Digital telemetry and remote control RS232. Remote control by opened/closed contacts
OPERATION TEMPERATURE	-5 to +40°C
WEIGHT	20Kg approx. (without rack)
DIMENSIONS	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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