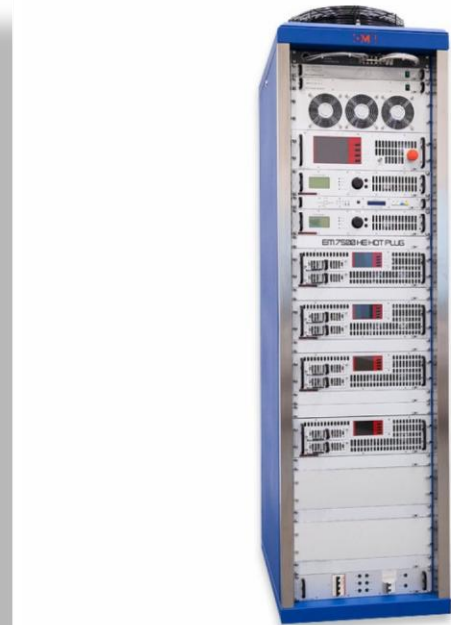


HIGH EFFICIENCY 7.5KW HOT PLUG FM TRANSMITTER EM 7500 HE HOT PLUG

The 7.5KW FM transmitter **EM 7500 HE HOT PLUG** has been created by OMB the center of development for high efficiency transmitters with hot plug modules. It consists on four FMA 2000 HE power amplifiers with >73% efficiency (they can be externally used as 2KW amplifiers) and the EM 100 DIG PLUS transmitter. This high efficiency 7.5KW amplifier has an approximate consumption of <11KVA, so it pays for itself in a short period of time due to its low consumption. This transmitter can be supplied with the following options:

- Stereo generator
- RDS
- Web server/SNMP telemetry
- AES/EBU digital audio input



MAIN ADVANTAGES

- Typical AC efficiency >73% and typical RF efficiency of 80%.
- Four hot plug and hot swap amplifying units, each one has two amplifying modules of 1.200W with robust LDMOS transistors of the latest technology.
- Power supplies connected in parallel to maintain the equipment working in case any of them fails. The power supplies of the amplifier are hot removable and interchangeable.
- 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 100 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.

GENERAL CHARACTERISTICS

AMPLIFIER FMA 7500 HE	
FREQUENCY RANGE	87.5-108MHz
INPUT RETURN LOSS	-20dB
INPUT POWER	80W
OUTPUT POWER	7.5KW nominal, manual and automatic adjustable
TOTAL AC EFFICIENCY	>73% typical
RF EFFICIENCY	80% typical
COOLING	Forced air, speed control of fans
HARMONICS LEVEL	-80dBc
INPUT/OUTPUT IMPEDANCE	50Ω
RF INPUT CONNECTOR	N(F)
RF OUTPUT CONNECTOR	EIA 1+5/8"
RF MONITOR CONNECTOR	BNC(F)
POWER SUPPLY	230VAC ±15% → 195 ÷ 265VAC, 50/60Hz Three-phase 380VAC ±15%
CONSUMPTION	<11KVA
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. SNMP/IP optional.
OPERATION TEMPERATURE	-5 to +40°C
WEIGHT	310Kg approx.
DIMENSIONS	175x59x90cm



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EXCITER EM 100 DIG PLUS	
FREQUENCY RANGE	87.5-108MHz
FM MODULATION	75KHz (adjustable) peak deviation. Mono 180kF3E and Stereo 256kF3E
AUDIO/MPX INPUT LEVEL	-3.5 @ +12.5dBm @ 75KHz deviation
AUDIO INPUT CONNECTORS	XLR(F)
AUXILIARY CHANNEL (RDS/SCA) INPUT LEVEL	7.5KHz deviation: -12.5 to 3.5dBm and 2KHz deviation: -24 to -8dBm
AUX. CHANNEL INPUT IMPEDANCE	10kOhm
MODULATION DISTORTION	7.5KHz deviation: <0.05%, 0.02% typical; 2KHz deviation: <0.2%, 0.05% typical
S/N MONO RATIO	30 to 20000Hz: >76dB, 86dB typical, CCIR: >75dB, 81dB typical
S/N STEREO RATIO	30 to 20000Hz: >72dB, 77dB typical, CCIR: >68dB, 72dB typical
AUDIO CHANNELS BANDWIDTH	30 to 15000Hz \pm 0.1dB
PRE-EMPHASIS TIME CONSTANT	Selectable, 25/50/75 microseconds
RF NOMINAL OUTPUT POWER	100W
CONSUMPTION	141VA (100W)
TUNING STEPS OF TRANSMITTER	10/100KHz
ALC OUTPUT POWER STABILITY	\pm 3%
SPURIOUS AND HARMONIC EMISSIONS	<80dBc
RF OUTPUT IMPEDANCE	50 Ω
RF INPUT POWER CONNECTOR	N
RF SAMPLING CONNECTOR	BNC
OPERATION TEMPERATURE RANGE	0 to 40°C recommended, -10 to 55°C max.
RELATIVE HUMIDITY	Up to 95% without condensation
DIMENSIONS	484x300x90mm, 2 standard rack units of 19"
WEIGHT	7Kg

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

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