

# HIGH POWER ANALOG TV TRANSMITTERS

## MOT 2000 FL B.III-IV-V

The **MOT 2000 FL BIII-IV-V** is a 20KW TV transmitter made up of the **MOT 100 FL** modulator/transmitter, and twelve **S2000** TV amplifiers designed with LDMOS technology. The option of independent operation in case of emergency is implemented, so that the user can have reserve amplifiers. Using the complete alarm and digitalized information systems of the MOT 2000 FL BIII-IV-V, the user can control the following parameters: exciter forward and reflected power, video level, audio level, synchronism level, power supply voltage level, consumption and voltage of each RF amplifier (module). The transmitter includes protections against: forward power excess, SWR excess, over-consumptions, over-voltages and over-temperature. The MOT 2000 FL BIII-IV-V also includes digital telemetry output and Notch BPF (Band Pass Filter).



3MOT S1500 YAV 3DIR SGP 2-R COM LIM3 MMS 412 MIX ONE100

DTP3 TX3000



*Esta imagen puede no coincidir con la realidad.*

## TECHNICAL SPECIFICATIONS

**Class** AB1  
**Available standards** B, D, G, H, I, K, M, N  
**Frequency range** Band III-IV-V  
**Cooling** Air forced  
**Operating temperature** From -10 to +45°C  
**Storage temperature** From -30 to +85°C  
**Max relative humidity** 90% non-condensed  
**Power Supply** 220VAC  $\pm$  15%, 50/60Hz  
**Consumption** 30kVA  
**Protections (each amplifier)** Over-current of each module, direct and reflected over-power and over-temperature  
**Dimensions** 3000x1770x900  
**Weight** 1600kg

## VIDEO PARAMETERS

**Input connector and impedance** Female BNC connector / 75 $\Omega$   
**Input level** 1Vpp  $\pm$  6dB  
**White clipper** 95%  
**2KT factor**  $\leq$ 1.5%  
**Amplitude / Frequency response**  $\leq$  $\pm$ 0.5dB  
**Chroma / Luma interference**  $\leq$ 4%  
**Sync pulse compression**  $\leq$  $\pm$ 3%  
**Weighted S/N ratio**  $\geq$ 60dB

## AUIDO PARAMETERS

**Input connector and impedance** Female XLR connector / 600 $\Omega$ -10k $\Omega$  selectable  
**Input level** 0dBm  $\pm$  8dB, 0.5dB steps  
**Frequency response**  $\pm$ 0.5dB (typical:  $\pm$ 0.2dB)  
**Unweighted S/N ratio**  $\geq$ 65dB

## OUTPUT PARAMETERS

**Nominal Output power** 20000Wps  
**Output Impedance** 50 $\Omega$   
**Unequal Load** 2:1 ROE Max.  
**I.M.D. (-8, -10, -16dB)** Better than -54dB with nominal output power  
**Spurious (With output filter)** Better than -56dBc with output filter  
**Output frequency stability** 1ppm  
**Output connector** EIA 1+5/8" or 3 +1/8"  
**RF monitor connector** BNC Female

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