The **MOT 4000 FL B.III-IV-V** is a 4KW TV transmitter made up of the **MOT 15 FL** modulator/transmitter and two **S 2000** TV amplifiers, designed with LDMOS technology. The option of independent operation is implemented (2000+2000), so that the user can have a reserve amplifier. Using the complete alarm and digitalized information systems of the MOT 4000 FL B.III-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 4000 FL BIV-V also includes digital telemetry output and Notch BPF (Band Pass Filter).
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 ± 15%, 50/60Hz
Consumption 6.0kVA (average)
Protections (each amplifier) Over-current of each module, direct and reflected
over-power and over-temperature
Dimensions 1240x590x900
Weight 198kg

VIDEO PARAMETERS
Input connector and impedance Female BNC connector / 75Ω
Input level 1Vpp ± 6dB
White clipper 95%
2KT factor ≤1.5%
Amplitude / Frequency response ≤±0.5dB
Chroma / Luma interference ≤4%
Sync pulse compression ≤±3%
Weighted S/N ratio ≥60dB

AUDIO PARAMETERS
Input connector and impedance Female XLR connector / 600Ω-10kΩ selectable
Input level 0dBm ± 8dB, 0.5dB steps
Frequency response ≤±0.5dB (typical: ≤±0.2dB)
Unweighted S/N ratio ≥65dB

OUTPUT PARAMETERS
Nominal Output power 4000Wps
Output Impedance 50Ω
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 7/8”
RF monitor connector BNC Female