

OMB - EM 1000



The **EM 1000** is a 1000W FM transmitter made up of the **EM 25 DIG** exciter (or **EM 20/30** exciter) and the **AM 1000** FM amplifier. This equipment includes 3 amplifying modules designed with state of the art MOSFET technology. It includes an elliptic LPF (Low Pass Filter) with high-attenuation in the harmonic frequencies and digital telemetry output in order to get information about internal parameters of the amplifier. The most relevant parameters can be visualized in the LCD display: Forward and Reflected power, overdrive, group 1 current, group 2 current, power supply voltage, SWR and temperature alarms. The 3 independent amplifying modules are combined and mounted on a high-performance heat-sink, so that the transistors work in optimal thermal conditions even in really hot environments.

TECHNICAL INFORMATION:

frequency range
 87.5 ~ 108MHz
operating class
 B
input return loss
 >20dB
input power
 10 ~ 15W
OUTPUT POWER
 1000W nominal adj.
Power gain
 19.2dB typical
Efficiency
 70% approx.
cooling
 Air forced
harmonics
 -76.5dBc
input/output impedance
 50Ω

RF input connector
 N Female
RF output connector
 7/8 DIN (7/16 optional)
RF monitor connector
 BNC Female
AC power supply
 115/230 VAC ±15%, <1700VA
ProtectTions
 Reflected power, over-consumption, temperature, power supply failure, overdrive, direct and reflected foldback.
REMOTE CONTROL AND TELEMETRY
 RS-232, exciter inhibition
operating temperature
 -5 to +40 °C (recommended)
 -10 to 50 °C (maximum)
Dimensions
 3RU (19" rack)
weight
 22kg.

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