

KNS 120 FM AMPLIFIER



TECHNICAL INFO:

Operating frequency range	87,5 ÷ 108 MHz
Input and output impedance	50 ohms
Harmonic suppression (ref. to carrier)	< - 72 dBc
Synchronous AM (ref. 100% mod.)	< - 60 dB
Asynchronous AM (ref. 100% mod.)	< - 60 dB
RF probe	-50 dBc, 50 ohm BNC
Power stability	< 2%
RF efficiency (before the output filters)	78% typ.
Overall efficiency	64% typ.
Input power	10 W, 15 W max.
Output power (adjustable from exciter)	0-120 W, 128 W max.

Measuring:

Forward power, reflected power, DC supply voltage of each RF stage, DC supply current of each RF stage.

Protections:

The internal logic circuitry provides proportional fold-back protection, without on-air interruptions, for:

VSWR, air over-temperature, insufficient cooling, output combiner unbalancing, fault of RF stages.

Automatic power control:

The automatic power control circuitry provides the output power regulation with a precision of 2% over the whole band.

AC power Requirements:

Type of DC voltage regulation	switch-mode
Operating voltage	110-220-240 ± 15% Vac 50/60 Hz, single-phase

Operating Conditions:

Cooling	forced air by internal fans
Service	continuous 24/24 h
Operating temperature	- 15÷ +45°C/5÷ +104°F
Relative humidity	95%
Max.installation altitude	4000 m a.s.l.

Weight and size (KNS120):

Weight	18Kg
W x H x D	483 x 165 x 385 mm