

# FM POWER TUBE AMPLIFIERS

## KA series 87.5 – 108 MHz



- **6, 10, 12, 15, 20, 30 kW** output power in continuous service: all parts used in these amplifiers are oversized to guarantee the full power 24/24 h even in hard environmental conditions.
- **87,5 - 108 MHz:** the frequency of these amplifiers can be easily field tuned from 87.5 MHz to 108 MHz without any parts modification.
- **Long life tubes.** The amplifier uses strong and reliable triodes or grounded grid tetrodes, widely used in the broadcast field, which assure long life and low maintenance costs.
- **High efficiency cavities.** A revolutionary cavity design without any sliding contact that minimizes the losses, increases the amplifiers efficiency and cavity ruggedness as well.
- **Single tube.** No coupled tubes for the best system reliability
- **Adjustable output power.** The tube's polarization allows the adjustment of output power simply varying the input one.
- **Electronic protections** assure an affordable and stable operation protecting units against major fault conditions.
- **Remote Control Logic** enables the equipment management for local or remote mode.
- **Full metering.** All the main parameters of the amplifiers are front panel displayed by a complete measurement system.
- **Operator's safety** is protected by active and passive devices according to international standards.
- **Soft-start circuit control:** the gradual insertion of power supply eliminating transient problems during start-up.
- **On-air removable** air filter with high filtering capacity permits to work in dusty places;
- **Forced air cooling.** An oversized cooling system guarantees regular functioning and long life for the cavity/tube set even with hard environmental conditions.
- **Meets or exceeds** international standards for safety and electrical specifications.

# KA series

## TECHNICAL CHARACTERISTICS

<b>R.F. Data</b>	Frequency range	87,5 ÷ 108 MHz (72 - 88 MHz optional)	
	Maximum output power:	6 kW (KA 6000), 10 kW (KA 10000), 12 kW (KA 12000), 15 kW (KA 15000), 20 kW (KA 20000), 35 kW (KA 30000)	
<b>Drive requirement &amp; AC Power Consumption (at full power)</b>	KA 6000	250 W, 9.8 KVA	
	KA 10000	450 W, 18 KVA	
	KA 12000	500 W, 22 KVA	
	KA 15000	750 W, 26 KVA	
	KA 20000	950 W, 34 KV	
	KA 30000	650 W, 51 KVA	
<b>Standard tubes (others on request)</b>	KA 6000	YU 148	
	KA 10000	YU 148	
	KA 12000	3CX 15000 A7	
	KA 15000	3CX 15000 A7	
	KA 20000	3CX 15000 A7	
	KA 30000	4CX 20000 C	
<b>Output connectors</b>	EIA 1 5/8" (KA 6000), (KA 10000), (KA 12000), (KA 15000), EIA 3 1/8" (KA 20000), EIA 6 1/8" (KA 30000)		
<b>Input connectors</b>	N/female or DIN 7/16"/female		
<b>Air outlet diameter</b>	160 mm ( 6 1/4"): KA 6000/10000/ or 200 mm ( 8" ) KA 12000/15000/20000/30000		
<b>Harmonic suppression</b>	Exceed all FCC/CCIR requirements		
<b>Input and output impedance</b>	50 Ω		
<b>Metering</b>	Forward/reflected power, anode voltage, anode and grid currents, working hours meter		
<b>Protections</b>	SWR, grid and anode overload, cooling failure, inverted or missing phases, temperature of main parts.		
<b>Remote control (optional)</b>	Forward and reflected power, anode voltage, anode and grid currents, reset, on/off, stand-by (others on request).		
<b>AC power requirements</b>	220 Vac or 380 Vac three-phases, 50/60 Hz. 220/240 Vac single-phase on KA 6000/KA 10000 (on request).		
<b>Cooling</b>	forced air		
<b>Service</b>	continuous 24/24 h		
<b>Operating temperature</b>	from -15°C to +45°C		
<b>Relative humidity</b>	95% max.		
<b>Max. installation altitude</b>	2700 mt (others on request)		
<b>Weight and size</b>	KA 6000	Weight Kg. 390	WxDxH: 570x850x1720 mm
	KA 10000	Weight Kg. 460	WxDxH: 570x850x1720 mm
	KA 12000	Weight Kg. 490	WxDxH: 570x850x1720 mm
	KA 15000	Weight Kg. 530	WxDxH: 570x850x1720 mm
	KA 20000	Weight Kg. 560	WxDxH: 570x850x1720 mm
	KA 30000 (two cabinets)	Cabinet 1 Cabinet 2	Weight Kg. 270 Weight Kg. 580

Features and specifications subject to change without notice.