



FA20K

20 KW FM POWER AMPLIFIER

Main Features

- Very Efficient LDMOS Amplifier
- Measurement and display of the transmitter's working parameters
- Seven Selectable Complete Set-up Ready For Use N+1 System
- Automatic start/stop for air conditioner
- Event logs can be seen on display or printed out with date&time of event
- High Reliability Use Of Microstrip Technology
- VSWR>65:1

Options

- GSM/GPRS Modem for internet connection
- Remote Control Via Internet (TCP/IP, SNMP)



The FA20K FM Amplifier is designed to provide more reliable FM transmitters using the extremely rugged LDMOS power transistor for the FM broadcast market. It consists of 10 pieces FA2K amplifier. These 10x2KW amplifiers are combined by a gysel combiner.





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Technical Parameters		
RF DATA	Operating Frequency	87.5-108.0 MHz
	RF Power Input	300 W
	RF Power Output	20000 W
	RF Input Connection	N
	RF Output Connection	EIA 3-1/8
	Input / Output Impedances	50Ω
	RF Probe	-70 dBm, 50 Ohm, BNC
	Power Stability	<1%
	Overall Efficiency	55%
	Spurious and harmonic suppression (ref. to carrier)	< - 80 dBc
	Synchronous AM (ref.100% mod.)	< - 58 dB
	Asynchronous AM (ref.100% mod.)	< - 50 dB
	MEASURED VALUES	Forward Power
Reflected power		
DC supply voltage of each RF stage		
DC supply current of each RF stage		
Heat sink Temperature		
Environmental Temperature		
Humidity		
ENVIRONMENTAL	Cooling	forced air by internal fans
	Service	continuous 7/24 h
	Operating temperature	15 to + 45°C/ 5 to + 104°F
	Max. Installation altitude	4000m on seal evels
POWER	AC Voltage	3 phases, each 180/264 VAC-47- 63 Hz
	Power consumption	29000 VA
PHYSICAL FEATURES	Height	2x26U
	Depth	120 cm
	Width	100cm
	Weight	420 kg