

PA02-502F

PA02-402F

PA02-302F



5kW VHF FM AMPLIFIER

4kW VHF FM AMPLIFIER

3kW VHF FM AMPLIFIER

Compact Line

FM AMPLIFIER

General information

The series belongs to the Medium Power VHF product family of FM Radio Amplifiers fully solid state technology air cooled.

The equipment is fully compliant with the personnel safety requirements as specified in EC 215.

The amplifiers have been designed to offer to the customer high performances, high reliability and great simplicity in their operation and maintenance procedures.



Compact design technology allows 5kW output power contained in only 19" drawer four rack units

Key Features *(referred to 5kW output)*

- **RF Signal** free from spurious and harmonic signals
- **LD-MOS** devices in order to have wide band, reliability and high efficiency ($\geq 74\%$).
- **Redundant 6x1,2kW** RF power amplifiers modules
- **Redundant 3x3,5kW** independent AC/DC Power Supplies
(2,5kW still available with one PS failure and 1kW available with two PS failures)
- **High Tolerance** mains voltage ($\pm 15\%$)
- **Mains Protection System** by means of Surge Arrester System (option)
- **Remote Operation** compliant to IEC 864-1 rule (all option are available)
- **Protection and Control System**
Current max.
Reflected power
Temperature max.
- **High Capacity Air cooling system** fully integrated
- **Ultra Compact design** only 4 Rack Units (19") and 30kg weight

Technical Specifications

GENERAL

- Frequency range 87.5 to 108 MHz
- Output power 3, 4 or 5 kW (± 0.5 dB) dependent of version
- Harmonic emission ≤ 80 dBc
- Spurious emission ≤ 90 dBc
- Residual AM noise level ≤ 60 dB
- Synchronous AM ≤ 50 dB
- RF output impedance 50Ω (7/8" EIA unflanged connector)

METERING

The following parameters can be read on Remote I/O:

- Forward power (FWD)
- Reflected power (REF)
- DC Supply voltage
- Programmed output power
- Alarm status

REMOTE CONTROL

- Parallel interface: start, stop, standby, alarms, status, interlock, recall memory

ELECTRICAL, COOLING, SIZE

- Voltage power supply: 3x380/420 VAC+N $\pm 15\%$; 3x220 VAC $\pm 15\%$ (others on request)
- Frequency: 50-60Hz $\pm 5\%$
- Power consumption: 7,2kW (cooling system included) (typical at 5kW)
- Power factor: ≥ 0.95
- Cooling: forced air
- Dimensions: 483 x 674 x 177H mm
- Weight: 30 kg. (5kW model)

ENVIRONMENTAL

- Operating temperature 0°C to $+45^{\circ}\text{C}$ (others on request)
- Relative humidity 20% to 90% non-condensing
- Altitude up to 2500 m.

Option

- OIRT Version: band of frequency 65.80 to 74.00 MHz

How to Order (others version on request):

PA02-302F – 3kW Amplifier
PA02-402F – 4kW Amplifier
PA02-502F – 5kW Amplifier

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