

PA02-202F  
PA02-152F  
PA02-102F  
PA02-501F



**2kW VHF FM AMPLIFIER**  
**1,5kW VHF FM AMPLIFIER**  
**1kW VHF FM AMPLIFIER**  
**0.5kW VHF FM AMPLIFIER**  
*Compact Line*

## General information

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

The **PA02** low power family is operating in the Band II or Band I (OIRT) for FM stereo sound broadcasting, with 0,5 to 2kW output power capability.

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.



*Very compact design technology allows 2kW output power contained in only 19" drawer two units high.*

## Key Features *(referred to 2kW 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 2x1,2kW** RF power amplifiers modules
- **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 2 Rack Units (19") and 14kg weight

## Technical Specifications

### GENERAL

- Frequency range ..... 87.5 to 108 MHz
- Output power ..... 0,5; 1; 1,5 or 2kW ( $\pm 0.5$ dB) dependent of version
- Harmonic emission .....  $\leq 70$  dBc
- Spurious emission .....  $\leq 90$  dBc
- Residual AM noise level .....  $\leq 60$  dB
- Synchronous AM .....  $\leq 50$  dB
- RF output impedance .....  $50 \Omega$  (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
- WEB interface: ..... TCP/IP Telemetry (option)

### ELECTRICAL, COOLING, SIZE

- Voltage power supply: ..... 220 VAC  $\pm 15\%$  (others on request)
- Frequency: ..... 50-60Hz  $\pm 5\%$
- Power consumption: ..... 700W to 2,7kW dependent by model
- Power factor: .....  $\geq 0.95$
- Cooling: ..... forced air
- Dimensions: ..... 483 x 6004 x 84H mm
- Weight: ..... 14 kg. (2kW model)

### ENVIRONMENTAL

- Operating temperature .....  $0^{\circ}\text{C}$  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):

**PA02-501F** – 500W Amplifier  
**PA02-102F** – 1kW Amplifier  
**PA02-152F** – 1,5kW Amplifier  
**PA02-202F** – 2kW Amplifier

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