

# PAV and PAU

Jotron power amplifiers



- Fits in a 19" rack
- Very low distortion
- Excellent gain flatness
- Rugged light alloy chassis
- Maintenance free

# PAV and PAU

## High performance power amplifiers

Jotron's high performance power amplifiers come in four different versions. PAU-100, PAV-100, PAV-200 and PAV-400. They are designed to operate together with the Jotron ATC radios VHF/UHF 7000-series, and to meet all the stringent requirement from the civil aviation professionals in the world. The PAV-400 consists of two PAV-200 power amplifiers and a power splitter/combiner unit.

### Features:

- Power output: VHF versions - up to 400 W (1600 W PEP) and UHF versions - up to 100 W (400 W PEP)
- Microcomputer controlled operation with alphanumeric display
- Built in RS-485/RS-232 serial interface
- Can be monitored on remote sites with the Jotron Remote Control and Monitoring System (RCMS) PC-program through TA-7650
- Internal gain loop provides very low distortion and excellent gain flatness over the whole operation frequency range
- In the case of any failure, the cause will be displayed on the front panel and if connected, a computer with RCMS installed
- Temperature controlled fan for lower noise and longer life
- Internal bypass relays for easy main/standby and transceiver set-up
- Autoswitch to backup power in case of power failure
- Rugged light alloy chassis
- Virtually maintenance free operation

## Technical specifications

Frequency range	VHF versions 118-144 MHz UHF version 225-400 MHz
Power supply	115 to 230 VAC $\pm$ 10% , 50 – 60 Hz
Temperature range	Operation: -20°C to +55°C at 95% humidity Storage: -20°C to +60°C at 65% humidity
Input power	50 W carrier VHF, 25 W carrier UHF
Output power	PAV-400      400 W carrier / 1600 W PEP PAV-200      200 W carrier / 800 W PEP PAV-100      100 W carrier / 400 W PEP PAU-100      100 W carrier / 400 W PEP
Output variation	+/- 1 dB across the band
VSWR	< 3.0:1
Intermodulation attenuation	> 40 dB (3rd order)
Spurious and harmonic emission	VHF < -80 dBc UHF < -65 dBc for second harmonic, < -75 dBc for all other harmonics
Distortion	< 10% for 85% modulation
Control Input	RS-485/RS232
Keying time	< 50 ms
BITE and indications	SWR, currents, voltages, input PWR, output PWR values available on front panel display
ALARM output	Dry relay contact
Dimensions (PAU-100, PAV-100, PAV-200)	W: 428 mm (19"), D: 460 mm, H: 132.5 mm (3U)
Dimensions (PAV-400)	W: 428 mm (19"), D: 460 mm, H: 311.2 mm (7U)
Weight	PAU-100, PAV-100, PAV-200: 19 kg PAV-400: 42 kg (all units)

## Applicable standards

EN 300676 (VHF, AM)  
EN 302617 (UHF, AM)  
IEC 62368-1 (safety)  
EN 300019-2-2 (environment, transport)



PAU-100, PAV-100, PAV-200



PAV-400