



# PAV / PAU

## POWER AMPLIFIER



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# ▶ PAV / PAU- POWER AMPLIFIER

Jotron's high performance power amplifiers are designed to operate together with the Jotron ATC radios VHF / UHF 7000-series. The units are designed to meet all the stringent requirement from the civil aviation professionals in the world.

### Following versions are available:

VHF amplifiers: PAV-200, PAV-100

UHF amplifiers: PAU-100, PAU-50 and PAU-100mil.

### Features:

- Power output: VHF versions - up to 200 W (800 W PEP)  
UHF versions - up to 100 W (400 W PEP)
- Complies with ICAO and NATO standards
- 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 & Monitoring System (RCMS) PC-program
- 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

### SPECIFICATIONS

Frequency range:	VHF version: 118-144 MHz UHF version: 225-400 MHz
Power supply:	230/115 V AC, 24-32 VDC Output power is reduced when voltage is below 27 VDC
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-200 200 W carrier / 800 W PEP PAV-100 100 W carrier / 400 W PEP PAU-100 100 W carrier / 400 W PEP PAU-100mil 100 W carrier / 400 W PEP PAU-50 50 W carrier / 200 W PEP
Output variation:	± 1dB across the band
VSWR:	1-8, degraded performance for VSWR > 1:3
Intermodulation Attenuation:	> 40dB (3rd order)
Spurious & 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:	< 50ms, <1ms for PAU-100mil
BITE and indications:	SWR, currents, voltages, input PWR, output PWR values available on front panel display
ALARM output:	Dry relay contact
Dimensions:	428 mm (19')(W) * 460 mm (D) * 132.5 mm (H)
Weight:	19 kg



### Agent/Distributor:

Jotron AS reserves the right to change the design and/or specifications at any time without prior notice. Reservations are also taken towards any general errors that may occur.

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