

## Power Amplifier 500C

PA 500C is developed according to the highest accuracy requirements with the most advanced technology, the amplifier provides the highest level of linearity, power efficiency and reliability of HF radio transceivers in the up-to-day digital communications. PA 500C is intended to gain a signal within 1.6...30 MHz frequency range.

The main PA 500C characteristics:

Nominal power output level	500 C
Operating frequency range	1,6...30 MHz
Nominal power input level	20 W
Power supply voltage	28 V
Dimensions	305x275x200 mm
Weight	19 kg

### Technical specifications

Operating frequency range:	1.6-30 MHz
Output power in CW mode: in SSB mode:	average – 500W peak – 500W
Amplification gain:	14 dB
Nominal power input level:	20 W
Intermodulation:	no more than -25 dB relative to any sound (or -31 dB relative to PEP)
Harmonic level:	no more than -50 dB, it is provided with 6-band switchable filter in the following frequency bands: 1.6-2.55 MHz      6.8-11.3 MHz 2.55-4.1 MHz      11.3-18.0 MHz 4.1-6.8 MHz      18.0-30.0 MHz
Non-harmonic component level:	no more than – 70 dB
Input/output impedance:	50 Ohm
Operation at load mismatch:	Operation is provided in the load range with VSWR 2:1 – 4:1. (an output power may be decreased in this case). There is an independent protection at short and idle pass in the load circuit.
Switching time of transmission/reception:	15 msec.
Switching time of reception/transmission:	15 msec.
Switching time between any harmonic filters:	15 msec.
Cooling system:	Air forced ventilation (by individual order)
Overheating protection:	Automatic cooling system control, two-step overheating protection.
Power supply voltage :	28 V DC.
Operation cycle:	Continuous using the air forced ventilation
Operating temperature range:	0°C to +50° C
Dimensions:	305×275×200 mm
Weight:	19 kg