



## High Power TV Amplifiers

### MAIN CHARACTERISTICS:

- LDMOS Technology for UHF Versions
- Forced-air Cooling System
- Analog and Digital Signal Input
- High Efficiency
- Remote Control wired and serial (RS232 or RS485)
- All voltages and currents available on display
- Output Filter included

The amplifiers in 'TV High Power amplifiers' series are designed to simplify transport and installation. Born to ensure high working reliability they excel also for their great performance . Thanks to the excellent linearity of the amplifiers, achieved with the use of the state-of-the-art LDMOS (UHF) and MOSFET (VHF) technology, these equipment allow excellent performance both with analog and digital TV signals. The design redundancy (a power supply for every MOS device), the oversized unbalanced power dummy loads, the wide input range of the switching-mode power supplies, allow a NO STOP transmission 24h per day. The temperature of the amplifiers is guaranteed by a extremely noiseless forced air cooling system. The presence of a Control Unit that collects all measures from amplifiers and from antenna system

ensure a single control point to access to all MOSFET currents, power supplies voltages, temperatures of the heat-sinks, amplifiers output powers together with the RF power reading of the output antenna system. A multifunction display on the Control Unit makes it possible to verify all the operating parameters of the unit. The amplifiers in the series are remotable by wired telemetry connector or by serial communication, RS232 on front panel or RS485 on rear panel of the Control Unit.



### MODELS

		2500W peak	3500W peak	5000W peak	10kW peak
UHF	DVB-T	600W rms	900W rms	1200W rms	2500W rms
	ATSC	1000W rms	1500W rms	2000W rms	4000W rms
VHF III	DVB-T	2000W peak	2500W peak	5000W peak	10kW peak
	ATSC	400W rms	520W rms	1000W rms	2000W rms
		720W rms	920W rms	1800W rms	3600W rms



Amplifier front panel

# Technical characteristics



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MODEL	AUTV/2500LD	AUTV/3500LD	AUTV/5000LD	AUTV/10000LD
Frequency Range	UHF	UHF	UHF	UHF
Analog Output Power	2500W	3500W	5000W	10kW
Digital Output Power (DVB-T / ATSC)	600W / 1000W	900W / 1500W	1200W / 2000W	2500W / 4000W
Amplification Class	AB	AB	AB	AB
Gain	27dB ±2	27dB ±2	27dB ±2	38dB ±2
Power Amplifiers	2x AUTV/1500LD	3xAUTV/1500LD	4xAUTV/1500LD	8xAUTV/1500LD
Remote Control	RS232, RS485	RS232, RS485	RS232, RS485	RS232, RS485
Input Connector	N Female	N Female	N Female	N Female
Output Connector	EIA 1"+ 5/8	EIA 1"+ 5/8	EIA 1"+ 5/8	EIA 3"+ 1/8
Power Supply Voltage	3P+N 400V ±15%	3P+N 400V ±15%	3P+N 400V ±15%	3P+N 400V ±15%
Power Supply Frequency	47-63Hz	47-63Hz	47-63Hz	47-63Hz
Power Factor	> 0.98	> 0.98	> 0.98	> 0.98
Analog Power Consumption (Black)	6.45kVA	9.75kVA	13.45kVA	26.25kVA
Digital Power Consumption (DVB-T / ATSC)	4.5 / 5.1 kVA	6.1 / 7.0 kVA	9.0 / 10.2 kVA	18.5 / 20.5 kVA
Housing (Rack / Height)	1Rack / 28U	1Rack / 38U	1Rack / 42U	2Rack / 42U
Weight	300kg	410kg	500kg	950kg
AirFlow	2000m³/h	2300m³/h	2500m³/h	5000m³/h
Temperature	-5°C to +45°C	-5°C to +45°C	-5°C to +45°C	-5°C to +45°C

MODEL	AVTV/2000ST	AVTV/2500ST	AVTV/5000ST	AVTV/10000ST
Frequency Range	VHF II	VHF III	VHF III	VHF III
Analog Output Power	2000W	2500W	5000W	10kW
Digital Output Power (DVB-T / ATSC)	400W / 720W	520W / 920W	1000W / 1800W	2000W / 3600W
Amplification Class	AB	AB	AB	AB
Gain	25dB ±1	25dB ±1	30dB ±1	30dB ±1
Power Amplifiers	2x AVTV/1000ST	2x AVTV/1500ST	4x AVTV/1500ST	8x AVTV/1500ST
Remote Control	RS232, RS485	RS232, RS485	RS232, RS485	RS232, RS485
Input Connector	N Female	N Female	N Female	N Female
Output Connector	EIA 1"+ 5/8	EIA 1"+ 5/8	EIA 1"+ 5/8	EIA 3"+ 1/8
Power Supply Voltage	3P+N 400V ±15%	3P+N 400V ±15%	3P+N 400V ±15%	3P+N 400V ±15%
Power Supply Frequency	47-63Hz	47-63Hz	47-63Hz	47-63Hz
Power Factor	> 0.98	> 0.98	> 0.98	> 0.98
Analog Power Consumption (Black)	6.1kVA	7.5kVA	15kVA	29.5kVA
Digital Power Consumption (DVB-T / ATSC)	3.9 / 4.5 kVA	4.6 / 5.3 kVA	9.0 / 10.5 kVA	18.5 / 22.0 kVA
Housing (Rack / Height)	1Rack / 28U	1Rack / 28U	1Rack / 42U	2Rack / 42U
Weight	300kg	350kg	500kg	950kg
AirFlow	2000m³/h	2000m³/h	2500m³/h	5000m³/h
Temperature	-5°C to +45°C	-5°C to +45°C	-5°C to +45°C	-5°C to +45°C

### OPTIONS

- Non Critical Mask, digital TV, output filter
- Critical Mask, digital TV, output filter
- Separated audio/video amplifier on request for analog TV over 5000W.

Specifications and characteristics are subject to change without notice

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