


VL 5 | 2500W

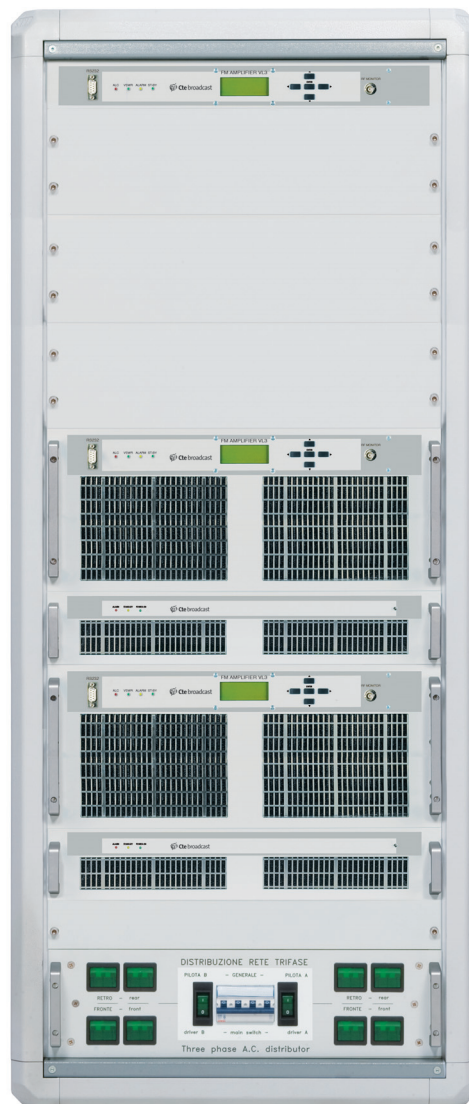
VL 10 | 2500W

VL 20 | 2500W

 THIS INNOVATIVE AND COMPACT AMPLIFIER IS ABLE TO SATISFY THE STRICTEST REQUESTS OF ALL END-USERS WHO ARE LOOKING FOR HIGH RELIABLE AND TOP-QUALITY EQUIPMENT AT COMPETITIVE PRICES. ALL THE DECLARED OPERATIONAL PARAMETERS ARE ASSURED IN THE ENTIRE FREQUENCY RANGE AND FOR EXTREME ENVIRONMENTAL CONDITIONS.

BY MEANS OF THE ADVANCED APPROACH IN THE DESIGN FOCUSED ON LOW POWER CONSUMPTION AND LINEARITY OVER THE ENTIRE OPERATIVE BAND, WE ESTIMATE A 20% LONGER MTBF WITH RESPECT TO THE AVERAGE STANDARD EQUIPMENT AVAILABLE IN THE MARKET. THE EQUIPMENT COMPLIES WITH THE EN 302-018 EUROPEAN REQUIREMENT.

-  MOSFET TECHNOLOGY
-  USER FRIENDLY FOR MONITORING AND CONTROL
-  DOUBLE STAGE POWER SUPPLY
-  FAST AND MULTIPLE PROTECTIONS
-  MODULAR DESIGN FOR QUICK AND EASY MAINTENANCE
-  FLEXIBLE TELEMETRY SYSTEM AND REMOTE CONTROL.



CODE	MODEL	DESCRIPTION
0000130269	VL 5	5 KW Power Amplifier 87.5-108 MHz (30U cabinet included)
	VL 5	5 KW Power Amplifier 87.5-108 MHz (42U cabinet included)
	VL 5	5 KW Power Amplifier 87.5-108 MHz (42U cabinet included+Fan)
0000130270	VL 10	10 KW Power Amplifier 87.5-108 MHz (42U cabinet included+Fan)
	VL 20	20 KW Power Amplifier 87.5-108 MHz (2x42U cabinet included+Fan)

❖ TECHNICAL DATA ❖

↳ RF OUTPUT SPECIFICATIONS

Range	87,5 ÷ 108 MHz
Overall efficiency	Better than 58 %
Impedance RF Connector	50 Ohm input and output
Output power stability	± 3 %
Harmonics suppression	≥ - 80 dBc (typically better than 90 dBc)
Spurious Emission	< 1 μW (without Modulation)
Residual Asynchrony AM	- 74 dB Weighed
Residual Synchrony AM	- 58 dB Weighed
Probe	BNC connector RF – 60 dBc
Power supply	Switch mode (Double conversion voltage direct mains)
Protections	Overheating 70 °C (by means of the General Control stage) Over charge Short Circuit on the output voltage Crow – Bar protection: (Excessive output voltage limit) Excessive current consumption of the RF module Over-voltage

↳ REMOTE CONTROL

LAN	WEB Broser by TCCP/IP SNMP Protocol (RJ45)
RS232	Software Remote Controller by GSM Modem (DB9f)
RS485	Internal BUS connection for syste connectivity(DB9 in&out)
Parallel	A I/O DB15

↳ STANDARDS COMPLIANCE

Radio spectrum	ETS 302-018
EMC	ETS 301-489
Safety	EN 60950 - EN 60215

↳ TEMPERATURE

Operating range	0° to 45° C
Storage range	- 40° to 70° C
Maximum relative Humidity	90% @ 26 °C non condensing
Max Operating Altitude	2500 mt. a.s.l.



↳ SPECIFICATIONS

	UL 5	UL 10	UL 20
RF output power	5 KW	10 KW	20 KW
Nr. of Transistors	16 MOS-FET SD 2942	32 MOS-FET SD 2942	64 MOS-FET SD 2942
RF Input (Nominal Level)	80 W	150 W	250 W
Output Connector	1-5/8 EIA	1-5/8 EIA	3-1/8 EIA
Dimensions (WxHxD) mm	540 x 1380 x 1000	540 x 2000 x 1000	540 x 2000 x 1000 (2 pcs)
Weight	150 Kg	250 Kg	500 Kg
Power consumption	Approx. < 9500 VA	Approx. < 19000 VA	Approx. < 38000 VA
Power supply req.	three-phase 380 Vac ± 15%	three-phase 380 Vac ± 15%	three-phase 380 Vac ± 15%
Nr. of power supply boards	6	12	24
Number of fans	2 blowers for each PA & PS module	2 blowers for each PA & PS module	2 blowers for each PA & PS module