VL 3 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.

THANKS TO 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 RTTE EUROPEAN REQUIREMENTS.

- MOSFET TECHNOLOGY
- USER FRIENDLY FOR MONITORING AND CONTROL
- DOUBLE STAGE POWER SUPPLY
- FAST AND MULTIPLE PROTECTIONS
- MODULAR DESIGN FOR QUICK AND EASY MAINTENANCE
- N+1 HARDWARE AND SOFTWARE CONTROL FACILITY

7 CODE	MODEL	DESCRIPTION
0000130268	VL 3	2500 W Power Amplifier 87.5-108 MHz
Option and accessories		
0005310003	DRIVER	TX250/S PLUS 250 W Stereo, Mono, MPX Transmitter
0005310034	DRIVER	TX300 300 W Stereo, Mono, MPX Transmitter
0005310038	DRIVER	TX300 300W TRASM. FM STEREO, MONO, MPX OPZ. A e B
0000170399	RACK	Cabinet 15 Unit 19" complete with cable and Earth Bar for transmitter

» TECHNICAL DATA »

SECUTIONS

Range Overall efficiency Impedance RF Connector Output power stability Harmonics suppression **Spurious Emission**

Residual Asynchrony AM Residual Synchrony AM Probe **Protections**

Programmable logic protection

Logic protections reset

Controls

Alarm

87,5 ÷ 108 MHz Better than 58 %

50 Ohm input and output

 $\pm 3\%$

≥ - 80 dBc (typically better than 90 dBc)

< 1 µW (without Modulation)

- 74 dB Weighed - 58 dB Weighed

BNC connector RF - 60 dBc

RF Amplifier module over-temperature 70

Excessive reflected power Permissible VSWR ≤ 1.5

Stopping of the unit after 8 alarms Stopping of the unit after 16 alarms

Manual, Remote or Automatically every 24

Mains - DB 15 Connector (Stand-by and Reset command)

Excessive output SWR (red led) 50 W adj. -

Alarm (red led) - Stand -by (yellow led) - Mains

- DC out - ALC

SPOWER SUPPLY

Switch mode (Double conversion voltage Type

direct mains)

Settings Single Phase; Mono Phase by internal jumper

Y REMOTE CONTROL

RS232 interface Connector DB9 Male - Two **Output Connector** Connector DB9 Female programmable – RS

485 - Connector DB15 Male

Output Connector Analogue Signal proportional to the output voltage of

the power supply module Signal proportional to the current supplied by

the power supply module

Signal proportional to the square root of the direct power

Signal proportional to the square root of the

reflected power

"Stand-by" signal (contact is N.C. in normal operations, connected to GND in stand-by **Output Connector Digital**

"N.O." alarm contact (contact is not connected in normal operation, connected to pin 15 in

"N.C." alarm contact (connected to pin 15 in alarm, contact is not connected in normal

operation)

Input Connector Stand-by command

Reset command

Connector RJ 46 WEB browser or SNMP client Ethernet interface (option)

S STANDARDS COMPLIANCE

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

Y TEMPERATURE

0° to 45° C Operating range Storage range - 40° to 70° C

90% @ 26 °C non condensing Maximum relative Humidity

Max Operating Altitude 2500 mt. a.s.l.

⅓ SPECIFICATIONS	VL 3
RF output power	2500 W
Nr. of Transistors	8 MOS-FET SD 2942
RF Input (Nominal Level)	40 W
Output Connector	7/8 EIA
Dimensions (WxHXD) mm	$(482 \times 220 \times 700) + (482 \times 88 \times 700)$
Weight	30 + 14 Kg
Power consumption	Approx. < 4800 VA
Power supply req.	three-phase 380 Vac ± 15% / 230 Vac mono-phase
Nr. of power supply boards	3
Number of fans	2 fan per each power supply module 2 fan per RF module
Nominal air volume at at 1000 hPa barometric pressure	740 m3/min