

## TECHNICAL BULLETIN

**DUAL OUTPUT WIDE-BAND UHF HPA**

**E10600-01-04**

**Rev.A**

This model is two channel 100 W class AB linear power amplifier designed for Wide-band applications in the 100 – 500 MHz frequency band for both CW and pulse application. This high reliability amplifier uses Power MOSFET devices operated in class AB for optimum broadband gain, output power and wide dynamic range.

High efficiency, reliable operation and flat gain are being achieved by employing unique broadband RF networks, custom machined housing and heavy duty components. Each unit undergoes extensive burn-in prior to final test and Q/A. Over temperature protection.

### Absolute Maximum Ratings

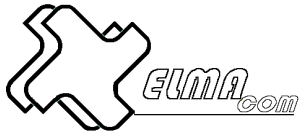
Parameter	Rating	Units
Supply Voltage	85 - 264	Vac
Supply Frequency	47 - 65	Hz
Input Current	4 @ 220 Vac	A
Output Power	2 x 100	W
Operating Temperature (air inlet)	-25 to +45	°C
Storage Temperature	-25 to +85	°C

### Electrical Characteristics @ T = 25 °C

Parameter	Values		Units
Frequency Range	100 - 500	min	MHz
Output Power @ 1 dB comp.	2 x 100	min	W
Output Power @ saturation	2 x 150	min	W
Input Power	+13	min	dB
Gain Flatness	+/- 2	max	dB
Non Harmonic Spurious	-60	max	dBc
2 <sup>nd</sup> Harmonic @ 1 dB comp	- 25	min	dBc
3 <sup>rd</sup> Harmonic @ 1 dB comp	- 15	min	dBc
Input/Output VSWR	17	min	dB
VSWR Protection	By Circulator		
Input Signal	CW/AM/FM/PM/Pulse		

#### ELMACOM srl

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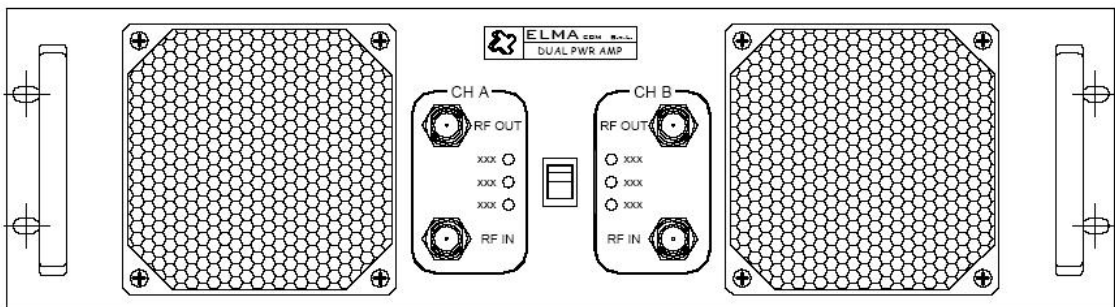
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## OUTLINE DRAWING



DIMENSIONS (mm) : 483 x 132 x 450 (W x H x D)

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