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## **THE JOULE ELECTRA MARQUIS VZN-100 OTL AMPLIFIER**

### Circuit Description

The Joule Electra MARQUIS can be described as two Class A amplifiers configured as asymmetrical pairs that are connected in parallel. The asymmetrical configuration allows the B+ voltage to cancel out at the load, resulting in an astounding combination of SINGLE ENDED CLASS A performance with the elimination of an output transformer.

The low impedance of the Russian Triodes (6C33CB's) gives the MARQUIS an awesome drive capability for any OTL amplifier. Duntech Princesses were used as the developmental speaker for the amps and they have an average impedance of 3.2 ohms.

One of the features of the VZN-100 is individual bias adjustment for each triode output tube. This allows the characteristics of the tubes to be matched exactly to each other. The output circuit is pure cathode follower to the load, which enjoys the benefits of local feedback without the need for global feedback.

The driver employed in the MARQUIS is a modified Mu Follower differential amplifier. The beauty of this approach is that any deficiency in the differential amplifier will cancel out due to the asymmetrical parallel output configuration. The sonic superiority of the Mu Follower is retained, and this has been the cornerstone of the sonics that has made Joule Electra one of the best known newcomers to the HIGH END.

The sonic performance of this circuit must be heard to be believed. It is the natural mate to the Joule Electra LA-100 which has already gained much recognition for sonic qualities in the brief period it has been available to the audiophile. Listen to the Joule Electra Marquis and you will hear **THE NEW SONIC HORIZON OF HIGH END AUDIO.**

### Specifications - Per Monoblock

Tubes	6 - 6C33CB's Triode (Output) 2 - 6350's Dual Triode (Driver) 3 - 12AX7's Dual Triode (Differential Mu Stage)	Power Output	100 Watts Class A into 8 Ohms 80 Watts Class A into 4 Ohms
		Output Stage	Single Ended Asymmetrical Class A
Power Supplies	2 - Regulated Filament Supplies 1 - Regulated Driver B+ Supply 1 - Driver Negative Supply 2 - Floating Driver Bias Supplies 2 - Floating Driver B+ Supplies 1 - Driver Filament Supply 1 - Floating Meter Supply	Power Requirement	400 Watts each Monoblock

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JOULE



ELECTRA

## VZN-100

Asymmetrical

Triode

Class A

OTL

Monoblock

100 Watt



## LA-200

Mu Stage

All Tube

Line Stage

Full Dress

Black with

Gold Trim

