

# TUBE WORKS

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## 1500

MosValve Power Amplifier

# OWNER'S MANUAL

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Congratulations on purchasing the most innovative audio amplifier on the market today. The Model 1500 incorporates a patented MosValve circuit designed by B.K. Butler. The MosValve power amplifier is a Class A design that emphasizes even order harmonics, which are very pleasing to the human ear. This design makes the Model 1500 an excellent choice for instrument amplification, including guitar, bass, keyboard and P.A.

- This amplifier was designed primarily for musical instrument and sound reinforcement amplification. It is an addition to your audio rig which will add warmth and definition to your sound.
- Use the MosValve 1500 with any preamp capable of producing 775 mV into a 20K load (Virtually any preamp).
- Use with speakers or cabinets capable of at least 250 watts RMS continuous power when operating in stereo or two channel mono modes or when using a speaker or cabinet capable of at least 400 watts RMS continuous power when operating in the mono one channel driven mode.

**MANUFACTURER IS NOT RESPONSIBLE FOR ANY SPEAKER FAILURE WHILE USING THIS EQUIPMENT.**

- This is a stereo power amp. Mono operation is switchable (both input channels bridged) with the use of Channel A inputs. Normal stereo operation is only possible with the rear-panel switch set to "STEREO". **NOTE:** Channel B inputs are disabled when "MONO" mode is used. Only Channel A inputs may be used in this mode.
- It is often advisable to use only one channel for mono (for example, if you are using only one speaker cabinet), as the 1500 will produce 380 watts into a 4 ohm load with only one channel driven. Use Channel A, and set Channel B controls to "0". **NOTE:** It will not damage Channel B to have no speaker plugged into it while using only **Channel A**.
- The Presence control is "Flat" when set at "0". Turning the control clockwise increases high frequency response, to a maximum of +15dB @ 10KHz. **NEVER** attempt to power bridge the two speaker output channels together. **NEVER** parallel or series them into one speaker or cabinet. If power from both channels is to be used, **ALWAYS** use at least two separate speaker systems (one per channel). **ALL WARRANTIES WILL IMMEDIATELY BECOME VOID IF ANY ATTEMPT AT POWER BRIDGING OR SERIES/PARALELL OUTPUT CONNECTION IS MADE!**
- A certain amount of heat during operation is normal. The 1500 is biased in a manner in which some heat will be present even while idling. It is best to keep the amp towards the bottom of the rack (coolest air) and avoid blocking the vents on the case. **NEVER DISABLE THE FAN!**
- Do not connect loads lower than 4 ohms per channel. These can be single speaker cabinets per output or a combination of two cabinets per output.

## TECHNICAL SPECIFICATIONS

OUTPUT POWER	250 watts RMS per channel at 4 ohms, both channels driven
S/N RATIO	Better than 97 dB at 4 ohms
HUM & NOISE	Better than -65 dBm @ 4 ohms (no input w/controls at 50%)
SENSITIVITY	(For Rated Output) 775mV (0 dBm)
INPUT IMPEDANCE	20K ohms (Balanced) 10K ohms (Unbalanced)
PRESENCE CONTROL	+15 dB @ 10KHz (Response is flat with control set @ "0")
POWER REQUIREMENTS	115/230 VAC, 1400 Watts
COOLING SYSTEM	Constant-turbulence fan with directed tunnel around heatsink
PROTECTION	Short-circuit protection, Thermal runaway-proof
RELAY	Turn-on delay and DC fault speaker protection
CLIP INDICATORS	Provide relative clean power indication. LED will light approx 2 dB before clipping @ 4 ohms <i>NOTE: MosValve circuitry allows an additional 2-3 dB of usable headroom above traditional clipping before becoming audibly distorted.</i>
SIZE	3 ½"H x 19"W x 11 ½"D (Standard 2 space rackmount)
FRONT PANEL CLEARANCE	1 ½" from handles to front panel
WEIGHT	30 lbs.

## WARRANTY

Your MosValve 1500 is warranted for a period of 3 years from the date of purchase against defects in materials or manufacturing to the original, registered owner provided he/she has returned a completely filled-out OWNER'S REGISTRATION CARD. This warranty covers parts and labor only; shipping charges remain the sole responsibility of the owner. Damage due to modification or abuse is excluded from this warranty. Before returning any unit for service, a RETURN MERCHANDISE AUTHORIZATION NUMBER (RMA) must be obtained by calling 480-941-0705.

## WARNING!!!

**As indicated on the rear panel of the MosValve 1500, the following are additional warnings:**

- The use and operation of this device constitutes an agreement of full release of any and all liability connected with such use. Only personnel familiar with high-powered audio equipment should attempt to operate this device.
- In addition, by the use of this device, user agrees to hold Genz Benz Enclosures, Inc., it's designers, sales agents and all other affiliates and related parties harmless in the event of any accident, injury, damage or loss, both real and incidental resulting from such use.
- Manufactures sole responsibility is to provide a warranty on the specified performance of the product under normal conditions for a period of three years.

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7811 E. Pierce St. • Scottsdale, AZ 85257

Ph: 480-941-0705 Fax: 480-946-2412 [www.genzbenz.com](http://www.genzbenz.com)