The Svetlana™ EL34 is a glass power pentode having a standard octal base and glass envelope. With a gold-plated molybdenum alloy grid and carbon-coated screen grid, the Svetlana EL34 is the finest power tube of its type being manufactured today. All ratings of the Svetlana EL34 meet or exceed those of the original version; top-quality cathode materials and extensive aging yield outstanding performance in high-fidelity amplifiers. The Svetlana EL34 is made exclusively at the Svetlana Electron Devices factory in St. Petersburg, Russia, and is marketed worldwide by PM Components Ltd. and in the USA by PM of America Inc.

**TYPICAL MECHANICAL AND ELECTRICAL PARAMETERS**

- **Exact replacement for:** EL34, 6CA7, KT77
- **Heater:** 6.3v AC or DC, 1.63 amps
- **Cathode:** oxide-coated high-purity nickel sleeve
- **Capacitances:**
  - control grid to anode: 1.2 pF
  - control grid to cathode: 17 pF
- **Mounting and basing:** std. octal, device operable in any position (keep adjacent tubes separated by 3.5 in. minimum)
- **Height:** 115 mm (4.5 in)
- **Diameter:** 33 mm (1.3 in)
- **Mass:** 65 g (2.3 oz)
ABSOLUTE MAXIMUM RATINGS

Cathode-heater maximum DC voltage +120v
Allowable spot temperature on envel. 250 degrees C
Plate voltage, DC (at idle) 825 v
Plate voltage, DC, in triode connection 510 v
Screen voltage, DC, at idle 510 v
Control grid voltage, DC, at idle -120 v
Cathode current, DC, at idle 165 mA
Plate dissipation, peak or idle 26 watts
Screen grid dissipation, peak or idle 8.5 watts
Control grid resistance, fixed bias 200k ohms

TYPICAL OPERATION

Class A one tube, fixed bias
Plate voltage 250v DC
Screen voltage 250v DC (2000 ohm series resistor)
Plate current, idle 70 mA
Grid bias -14.5 v DC
Load resistance 3000 ohms
Output power 8 watts
Total harmonic distortion at 8w output 10%

Push-pull class B tetrode connection, fixed bias
Plate voltage 500v DC
Screen voltage, both tubes 400v DC (750-ohm series resistor)
Plate current, idle 60 mA
Plate current, full power 250 mA
Grid bias -36 v DC
Load resistance, plate-to-plate 4000 ohms
Output power 70 watts
Total harmonic distortion at 70w out 5%
Push-pull class AB1 ultralinear connection, fixed bias
Plate voltage 500v DC
Screen taps 43%
Plate plus screen current, idle 114 mA
Plate plus screen current, full power 224 mA
Grid bias -45v
Load resistance, plate-to-plate 7000 ohms
Output power 60 watts
Total harmonic distortion at 60w out 2.5%

Push-pull class AB1 triode connection, cathode bias
Plate and screen voltage 400v DC
Plate plus screen current, idle 130 mA
Plate plus screen current, full power 142 mA
Cathode bias resistor, common 220 ohms
Load resistance, plate-to-plate 5000 ohms
Output power 16.5 watts
Total harmonic distortion at 16.5w out 3%