

he 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: Heater: Cathode: Capacitances:

control grid to anode control grid to cathode Mounting and basing

Height Diameter Mass EL34, 6CA7, KT77 6.3v AC or DC, 1.63 amps oxide-coated high-purity nickel sleeve

1.2 pF 17 pF std. octal, device operable in any position (keep adjacent tubes separated by 3.5 in. minimum) 115 mm (4.5 in) 33 mm (1.3 in) 65 g (2.3 oz)

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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 Screen voltage Plate current, idle Grid bias Load resistance Output power Total harmonic distortion at 8w output

250v DC 250v DC (2000 ohm series resistor) 70 mA -14.5 v DC 3000 ohms 8 watts 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%	

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Push-pull class AB1 ultralinear connection	n, 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%	

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