



Single Ended 211 Amplifier
 My second design
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Power Supplies details:
 The 308V PS has 65.5uV of ripple giving more than 100dB rejection (350uV gives -100dB).
 The 1055V PS has 428uV of ripple giving more than 100dB rejection (3.25mV gives -100dB).

Input stage details:
 417A operating point:
 Vg: -1.5 V
 Vp: 153 V
 Ip: 27.35 mA
 ra: 1671 Ohm
 Av: 32.43
 Loadline: 5600 Ohm
 Grid swing: 3 V Peak-to-Peak
 Plate swing: 99 V Peak-to-Peak
 THD: 0.64%
 2ndHD: 0.59%
 3rdHD: 0.26%
 4thHD: 0.07%

Output stage details:
 211 operating point:
 Vg: -50.3 V
 Vp: 984 V
 Ip: 69.3 mA
 ra: 3550 Ohm
 Av: 9.16
 Loadline: 11.5 KOhm
 Grid swing: 100.64 V Peak-to-Peak
 Plate swing: 917 V Peak-to-Peak
 Power: 9.14 Wrms
 Damping factor into 8 Ohms: 3.24
 THD: 1.07%-38.9 dB
 2ndHD: 1.07%-39.5 dB
 3rdHD: 0.04%-67.2 dB
 4thHD: 0.28%-51.2dB