Op-amps



Limitations of Practical Operational Amplifiers

1. The output voltage of signal-type op-amps is limited to about 1 to 2 V below the supply voltage (which is typically ±15 V). It will depend on the output current beyond about 10 mA.



2. The output current of signal-type op-amps is limited to about 10-20 mA.

(However, <u>Power Op-Amps</u> can handle much larger voltages and output currents.)



3. The gain setting resistors should be kept within a range of about 1 k to 1 M to prevent noise, drift, and excessive circuit loading.



4. The gain of a typical op-amp should be limited to about 100 or less to prevent offset and drift

