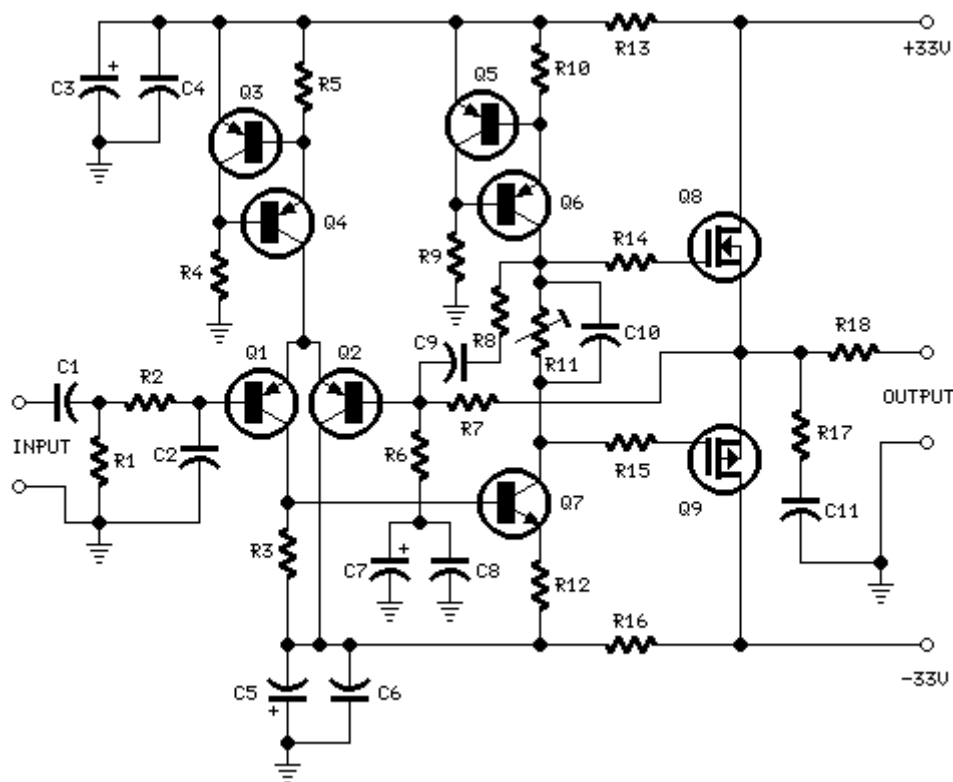


# 25 Watt MosFet Audio Amplifier

High Quality simple unit  
No need for a preamplifier

## Circuit diagram:

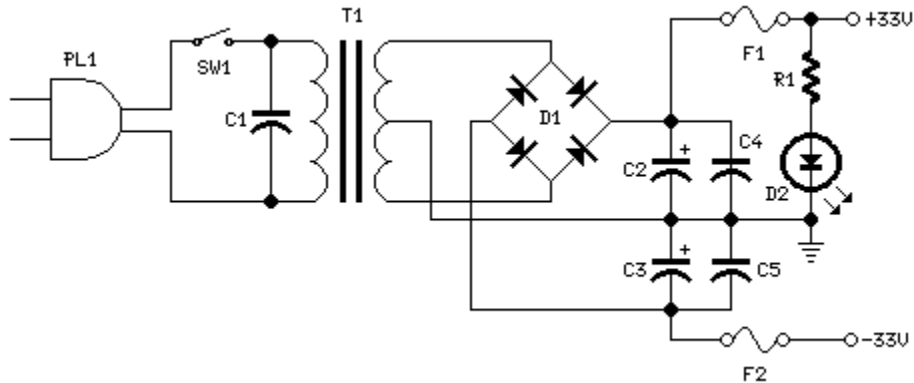


## Parts:

R1,R4	47K	1/4W Resistors
R2	4K7	1/4W Resistor
R3	1K5	1/4W Resistor
R5	390R	1/4W Resistor
R6	470R	1/4W Resistor
R7	33K	1/4W Resistor
R8	150K	1/4W Resistor
R9	15K	1/4W Resistor
R10	27R	1/4W Resistor
R11	500R	1/2W Trimmer Cermet
R12,R13,R16	10R	1/4W Resistors
R14,R15	220R	1/4W Resistors

R17\_\_\_\_\_8R2      2W Resistor  
 R18\_\_\_\_\_R22      4W Resistor (wirewound)  
  
 C1\_\_\_\_\_470nF    63V Polyester Capacitor  
 C2\_\_\_\_\_330pF    63V Polystyrene Capacitor  
 C3,C5\_\_\_\_\_470µF   63V Electrolytic Capacitors  
 C4,C6,C8,C11\_100nF   63V Polyester Capacitors  
 C7\_\_\_\_\_100µF    25V Electrolytic Capacitor  
 C9\_\_\_\_\_10pF     63V Polystyrene Capacitor  
 C10\_\_\_\_\_1µF     63V Polyester Capacitor  
  
 Q1-Q5\_\_\_\_\_BC560C   45V 100mA Low noise High gain PNP Transistors  
 Q6\_\_\_\_\_BD140      80V 1.5A PNP Transistor  
 Q7\_\_\_\_\_BD139      80V 1.5A NPN Transistor  
 Q8\_\_\_\_\_IRF532    100V 12A N-Channel Hexfet Transistor  
 Q9\_\_\_\_\_IRF9532   100V 10A P-Channel Hexfet Transistor

## Power supply circuit diagram:



## Parts:

R1\_\_\_\_\_3K3    1/2W Resistor  
  
 C1\_\_\_\_\_10nF   1000V Polyester Capacitor  
 C2,C3\_\_\_\_\_4700µF   50V Electrolytic Capacitors  
 C4,C5\_\_\_\_\_100nF    63V Polyester Capacitors  
  
 D1\_\_\_\_\_200V 8A Diode bridge  
 D2\_\_\_\_\_5mm. Red LED  
  
 F1,F2\_\_\_\_\_3.15A Fuses with sockets  
  
 T1\_\_\_\_\_220V Primary, 25 + 25V Secondary 120VA Mains transformer  
  
 PL1\_\_\_\_\_Male Mains plug  
  
 SW1\_\_\_\_\_SPST Mains switch

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## Notes:

- | Can be directly connected to CD players, tuners and tape recorders. Simply add a 10K Log potentiometer (dual gang for stereo) and a switch to cope with the various sources you need.
- | Q6 & Q7 must have a small U-shaped heatsink.
- | Q8 & Q9 must be mounted on heatsink.
- | Adjust R11 to set quiescent current at 100mA (best measured with an Avo-meter in series with Q8 Drain) with no input signal.
- | A correct grounding is very important to eliminate hum and ground loops. Connect in the same point the ground sides of R1, R4, R9, C3 to C8. Connect C11 at output ground. Then connect separately the input and output grounds at power supply ground.

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## Technical data:

**Output power:** well in excess of 25Watt RMS @ 8 Ohm (1KHz sinewave)

**Sensitivity:** 200mV input for 25W output

**Frequency response:** 30Hz to 20KHz -1dB

**Total harmonic distortion @ 1KHz:** 0.1W 0.014% 1W 0.006% 10W 0.006% 20W 0.007% 25W

**Total harmonic distortion @ 10KHz:** 0.1W 0.024% 1W 0.016% 10W 0.02% 20W 0.045% 25W

**Unconditionally stable on capacitive loads**

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