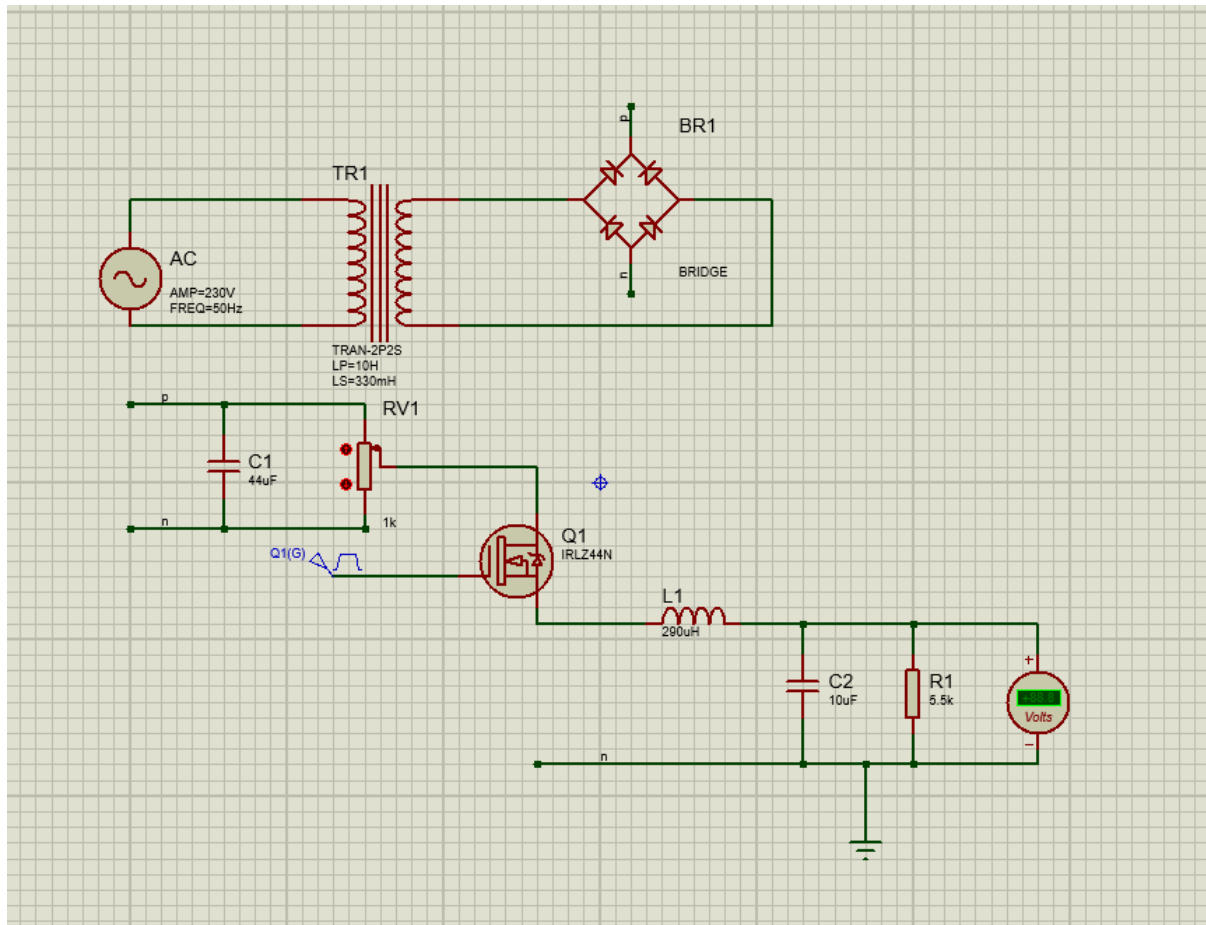


Buck Regulator-based Positive Output Step-Down DC-DC Controller

Aim: design a Buck Regulator-based Positive Output Step-Down DC-DC Controller using a 230V AC input, where the AC is first converted to 36V DC, and then stepped down to 32V, 28V, and 16V DC outputs

Circuit:



Components used:

components	values
AC supply	230v, 50Hz
Transformer	LP = 10H, LS = 330mH
Bridge rectifier	5 diodes
capacitors	44uF, 10uF
Transistor	IRLZ44N
Inductor	290uH,190uH
Pulse {Q(1G)}	100KHZ, 60-pulse width
potentiometer	100k-1k ohm

Outputs:

