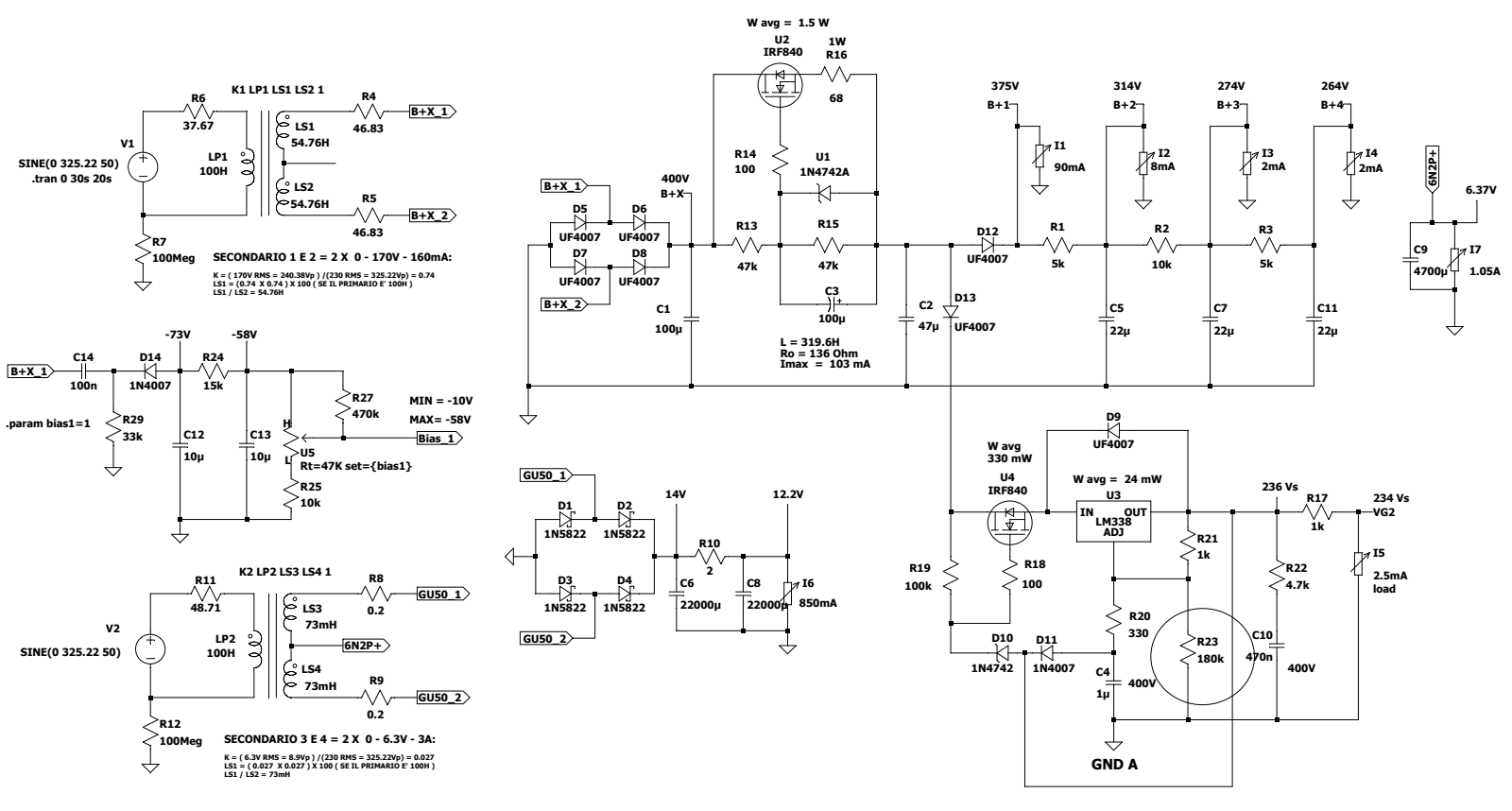
K1 LP1 LS1 LS2 1
R6
37.67
R4
46.83
B+X_1
V1
SINE(0 325.22 50)
.tran 0 30s 20s
LP1
100H
LS1
54.76H
LS2
54.76H
R5
46.83
B+X_2
R7
100Meg
SECONDARIO 1 E 2 = 2 X 0 - 170V - 160mA:
K = (170V RMS = 240.38Vp) /(230 RMS = 325.22Vp) = 0.74
LS1 = (0.74 X 0.74) X 100 (SE IL PRIMARIO E' 100H)
LS1 / LS2 = 54.76H
W avg = 1.5 W
U2
IRF840
1W
R16
68
R14
100
U1
1N4742A
B+X_1
400V
B+X
D5
D6
UF4007
UF4007
D7
D8
UF4007
UF4007
B+X_2
R13
47k
R15
47k
C3
100µ
C1
100µ
L = 319.6H
Ro = 136 Ohm
Imax = 103 mA
375V
B+1
I1
90mA
314V
B+2
I2
8mA
274V
B+3
I3
2mA
264V
B+4
I4
2mA
6N2P+
6.37V
C9
4700µ
I7
1.05A
D12
UF4007
R1
5k
R2
10k
R3
5k
C2
47µ
D13
UF4007
C5
22µ
C7
22µ
C11
22µ
-73V
-58V
B+X_1
C14
100n
D14
1N4007
R24
15k
R27
470k
MIN = -10V
MAX= -58V
.param bias1=1
R29
33k
C12
10µ
C13
10µ
H
U5
L
Rt=47K set={bias1}
Bias_1
R25
10k
D9
UF4007
W avg
330 mW
U4
IRF840
W avg = 24 mW
U3
IN
OUT
LM338
ADJ
236 Vs
R17
1k
234 Vs
VG2
I5
2.5mA
load
R21
1k
R22
4.7k
R19
100k
R18
100
R20
330
R23
180k
C10
470n
400V
D10
1N4742
D11
1N4007
C4
1µ
400V
GND A
GU50_1
D1
1N5822
D2
1N5822
14V
12.2V
R10
2
D3
1N5822
D4
1N5822
C6
22000µ
C8
22000µ
I6
850mA
GU50_2
K2 LP2 LS3 LS4 1
R11
48.71
R8
0.2
GU50_1
V2
SINE(0 325.22 50)
LP2
100H
LS3
73mH
6N2P+
LS4
73mH
R9
0.2
GU50_2
R12
100Meg
SECONDARIO 3 E 4 = 2 X 0 - 6.3V - 3A:
K = (6.3V RMS = 8.9Vp) /(230 RMS = 325.22Vp) = 0.027
LS1 = (0.027 X 0.027) X 100 (SE IL PRIMARIO E' 100H)
LS1 / LS2 = 73mH