

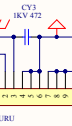
设计要求输入90-130或者180v到260
输出12v 30a

理论计算, 仅供参考

EE19驱动变压器
1:1.1 35圈
0.3线3线并绕, 高侧为0.3三重绝缘线
变压器指定ER4215 AE=194 AL=4.69
最低电压设计210v直流, 频率80k
变比: $210 \times 0.45 / 13 = 7.269$
IPK1: $400w / (0.85 \times 210 \times 0.45) = 4.97a$
IRSM= $5 \times \sqrt{0.45} = 3.35a$
NP= $210 \times 0.45 / (0.2 \times 1.94 \times 8) = 30.44$
NS= $30.44 / 7.269 = 4.188$ 取4圈
NP= $4 \times 7.269 = 29$ 圈

LM= $29 \times 29 \times 4.69 \times 0.9 = 3.549mH$
IPK2= $210 \times 0.45 / (80k \times 3.55mH) = 0.332A$
IPK= $4.97 + 0.332 = 5.3A$
CS= $1/6A = 0.166R = 0.33R$ 并
IRSM= $7.26 \times 3.35 = 24.3A$
VCC1= $2 \times 210 / 29 = 14.48V$
VCC2= $2 \times 370 / 29 = 25.5V$

初级0.7*2 29圈
次级0.7*12 4圈
VCC绕组0.35线2圈
三明治绕法, vcc最外, 层于层3层胶带



NTC10k 电阻45度4.9k, 50度4.16k, 55度3.54k, 60度3.03k
跳线1.5mm, 20,25,28,36,40,45mm

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Size	Number	Revision
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