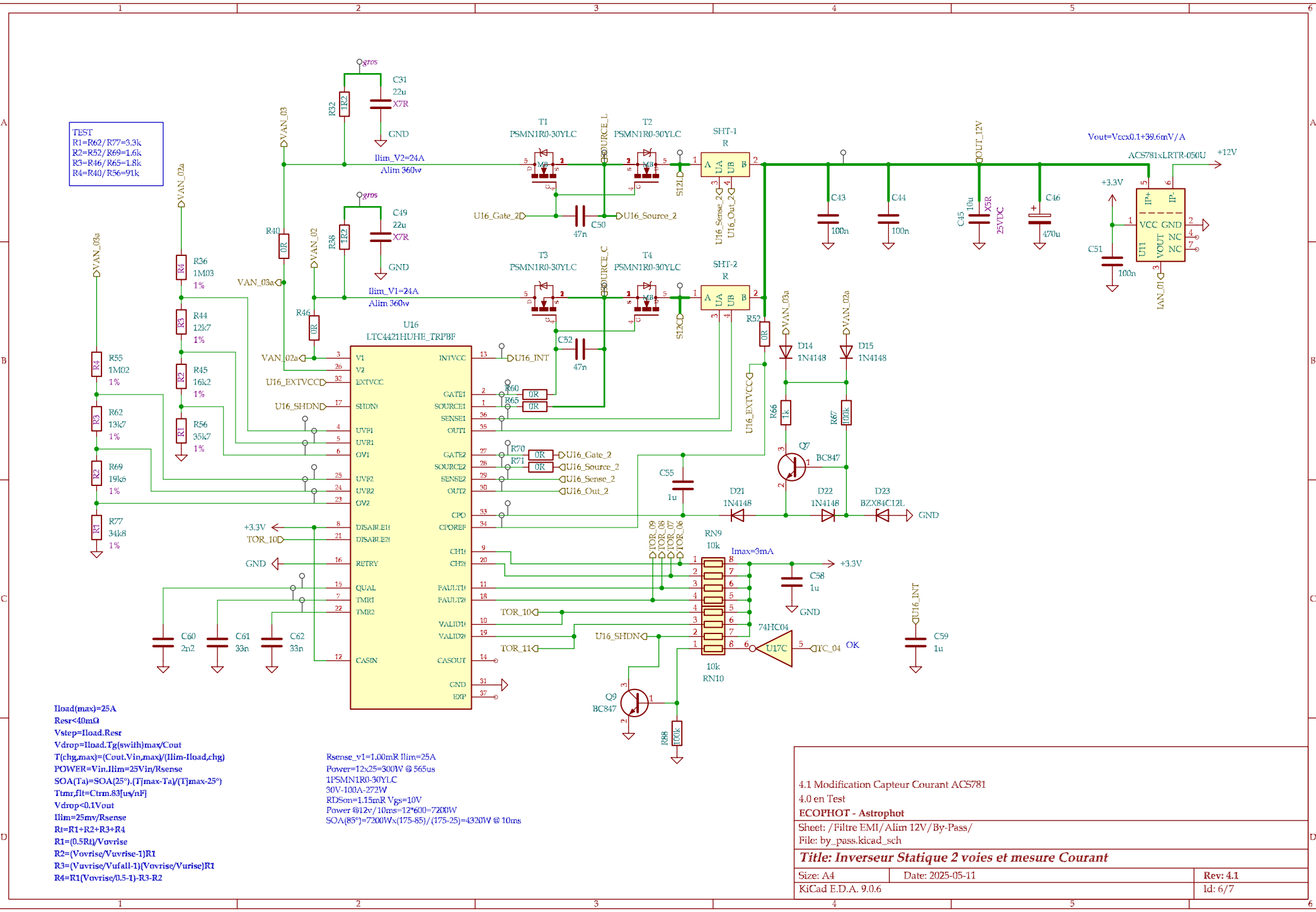


TEST
 R1=R62/R77=3.3k
 R2=R52/R69=1.6k
 R3=R46/R65=1.8k
 R4=R40/R56=91k

Iload(max)=25A
 Resr<40mΩ
 Vstep=Iload.Resr
 Vdrop=Iload.Tg(swit)max/Cout
 T(chg,max)=(Cout.Vin,max)/(Ilim-Iload,chg)
 POWER=Vin.Ilim=25Vin/Rsense
 SOA(Ta)=SOA(25°).(Tjmax-Ta)/(Tjmax-25°)
 Ttmr,fl=Ctrm.83[us/nF]
 Vdrop<0.1Vout
 Ilim=25mV/Rsense
 R1=R1+R2+R3+R4
 R1=(0.5Rt)/Vovrise
 R2=(Vovrise/Vuvrise-1)R1
 R3=(Vuvrise/Vufall-1)(Vovrise/Vuvrise)R1
 R4=R1(Vovrise/0.5-1)-R3-R2

Rsense_v1=1.00mR Ilim=25A
 Power=12x25=300W @ 565us
 1PSMN1R0-30YL C
 30V-100A-272W
 RD5on=1.15mR Vgs=10V
 Power @12v/10ms=12*600=7200W
 SOA(85°)=7200Wx(175-85)/(175-25)=4320W @ 10ms



4.1 Modification Capteur Courant ACS781	
4.0 en Test	
ECOPHOT - Astrophot	
Sheet: /Filtre EMI/ Alim 12V /By-Pass/	
File: by_pass.kicad_sch	
Title: Inverseur Statique 2 voies et mesure Courant	
Size: A4	Date: 2025-05-11
KiCad E.D.A. 9.0.6	Rev: 4.1
	Id: 6/7