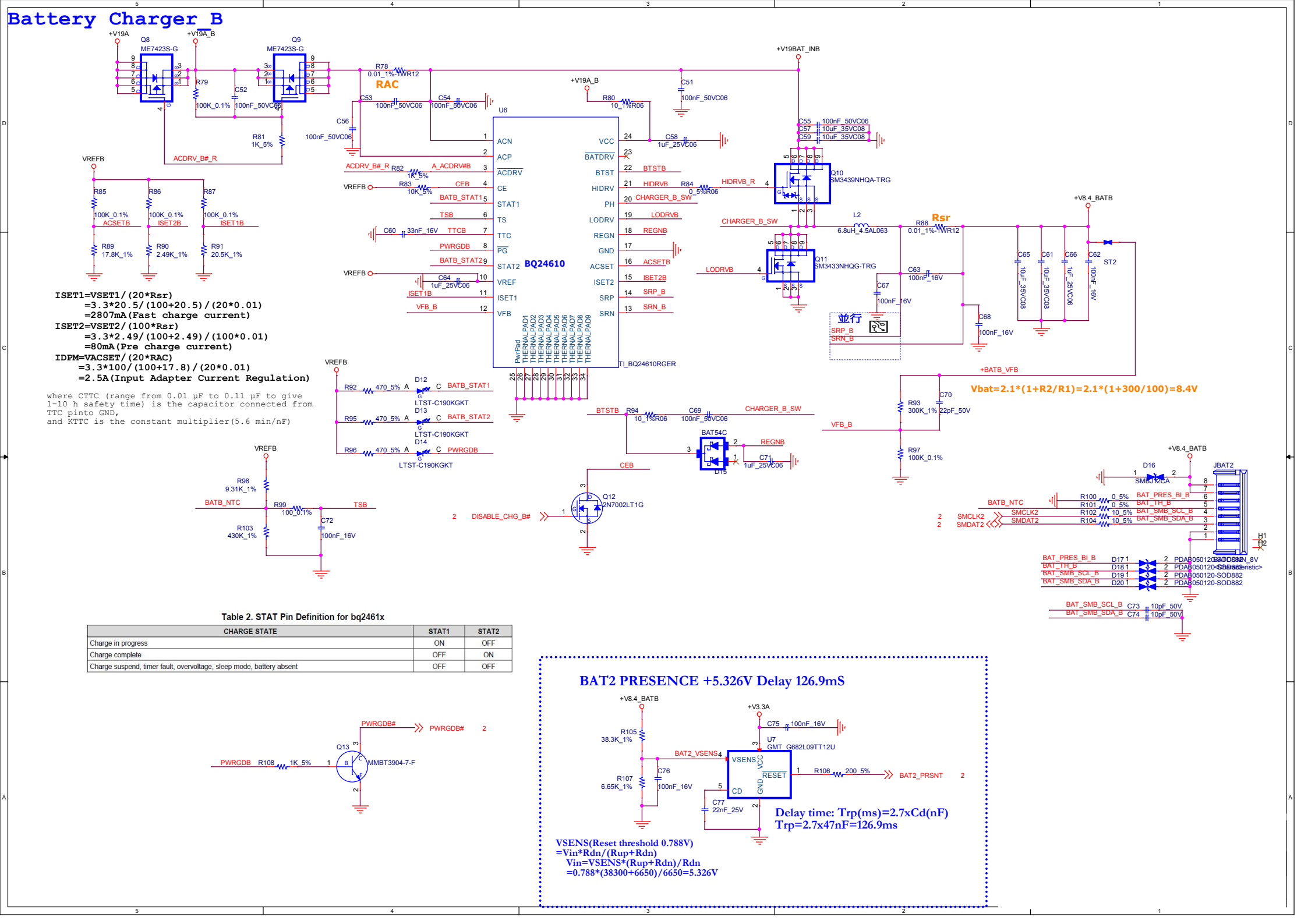
Battery Charger B



ISET1=VSET1/(20*Rsr)
=3.3*20.5/(100+20.5)/(20*0.01)
=2807mA(Fast charge current)
ISET2=VSET2/(100*Rsr)
=3.3*2.49/(100+2.49)/(100*0.01)
=80mA(Pre charge current)
IDPM=VACSET/(20*RAC)
=3.3*100/(100+17.8)/(20*0.01)
=2.5A(Input Adapter Current Regulation)

where CTTC (range from 0.01 µF to 0.11 µF to give 1-10 h safety time) is the capacitor connected from TTC pinto GND,
and KTTC is the constant multiplier(5.6 min/nF)

Table 2. STAT Pin Definition for bq2461x

CHARGE STATE	STAT1	STAT2
Charge in progress	ON	OFF
Charge complete	OFF	ON
Charge suspend, timer fault, overvoltage, sleep mode, battery absent	OFF	OFF

BAT2 PRESENCE +5.326V Delay 126.9mS

VSENS(Reset threshold 0.788V)
=Vin*Rdn/(Rup+Rdn)
Vin=VSENS*(Rup+Rdn)/Rdn
=0.788*(38300+6650)/6650=5.326V