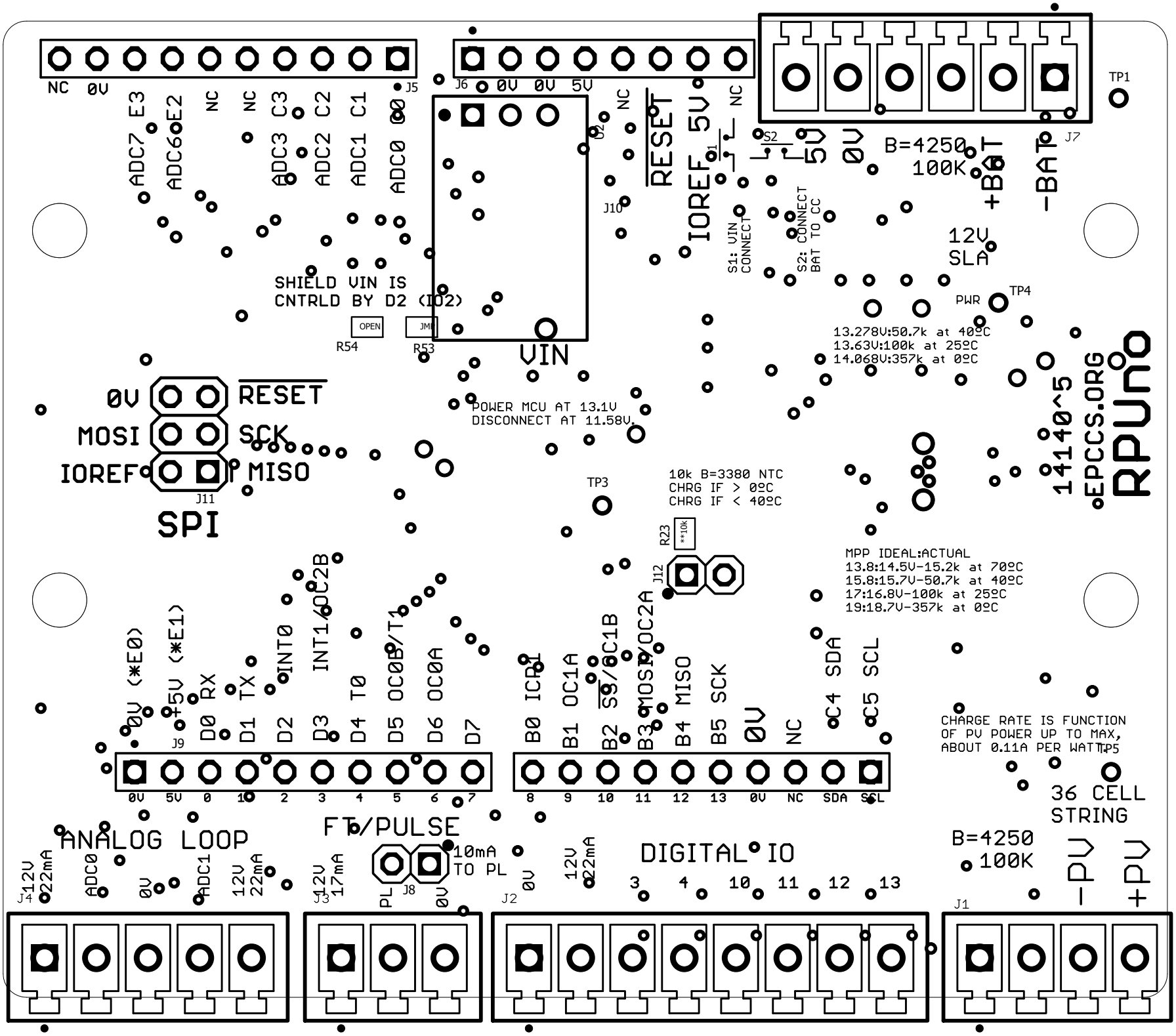
NC 0V ADC7 E3 ADC6 E2 NC NC ADC3 C3 ADC2 C2 ADC1 C1 ADC0 C0 J5
J6 0V 0V 5V
NC RESET IOREF 5V NC
S2 5V 0V B=4250 100K +BAT -BAT J7
TP1
J10
S1: VIN CONNECT
S2: CONNECT BAT TO CC
12V SLA
PWR TP4
SHIELD VIN IS CNTRLD BY D2 (IO2)
OPEN JMP
R54 R53
VIN
13.278V:50.7k at 40ºC
13.63V:100k at 25ºC
14.068V:357k at 0ºC
RPUno
EPCCS.ORG
14140^5
POWER MCU AT 13.1V
DISCONNECT AT 11.58V.
0V RESET
MOSI SCK
IOREF MISO
J11
SPI
TP3
10k B=3380 NTC
CHRG IF > 0ºC
CHRG IF < 40ºC
R23 **10k
J12
MPP IDEAL:ACTUAL
13.8:14.5V-15.2k at 70ºC
15.8:15.7V-50.7k at 40ºC
17:16.8V-100k at 25ºC
19:18.7V-357k at 0ºC
0V (*E0) +5V (*E1) D0 RX D1 TX D2 INT0 D3 INT1/OC2B D4 T0 D5 OC0B/T1 D6 OC0A D7
B0 ICP1 B1 OC1A B2 SS/OC1B B3 MOSI/OC2A B4 MISO B5 SCK 0V NC C4 SDA C5 SCL
J9
0V 5V 0 1 2 3 4 5 6 7
8 9 10 11 12 13 0V NC SDA SCL
CHARGE RATE IS FUNCTION OF PV POWER UP TO MAX, ABOUT 0.11A PER WATT
TP5
36 CELL STRING
B=4250 100K
-PV +PV
J1
ANALOG LOOP
J4 12V 22mA ADC0 0V ADC1 12V 22mA
J3 12V 17mA PL 0V
FT/PULSE
10mA TO PL
J8
J2 0V 12V 22mA
DIGITAL IO
3 4 10 11 12 13