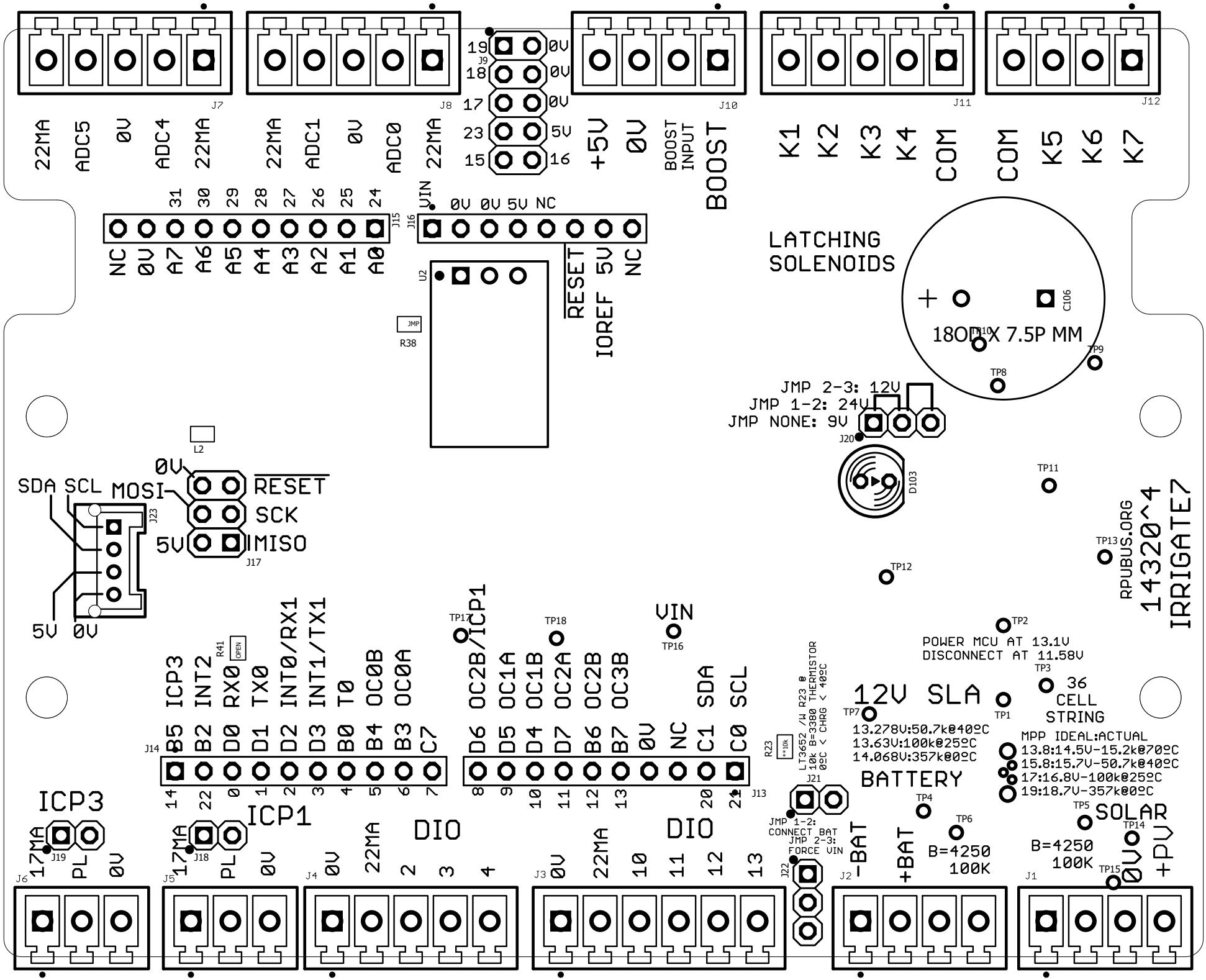
J7
22MA
ADC5
0V
ADC4
22MA
J8
22MA
ADC1
0V
ADC0
22MA
J9
19 0V
18 0V
17 0V
23 5V
15 16
J10
+5V
0V
BOOST INPUT
BOOST
J11
K1
K2
K3
K4
COM
J12
COM
K5
K6
K7
J15
31 30 29 28 27 26 25 24
NC 0V A7 A6 A5 A4 A3 A2 A1 A0
J16
VIN
0V 0V 5V NC
RESET
IOREF 5V NC
U2
JMP
R38
LATCHING SOLENOIDS
C106
18ODX 7.5P MM
D110
TP9
TP8
JMP 2-3: 12V
JMP 1-2: 24V
JMP NONE: 9V
J20
D103
TP11
L2
0V
SDA SCL MOSI
RESET
SCK
5V
MISO
J17
J23
5V 0V
TP13
RPUBUS.ORG
14320^4
IRRIGATE7
TP12
TP17
TP18
VIN
TP16
TP2
POWER MCU AT 13.1V
DISCONNECT AT 11.58V
TP3
36 CELL STRING
R41
OPEN
B5 ICP3
B2 INT2
D0 RX0
D1 TX0
D2 INT0/RX1
D3 INT1/TX1
B0 T0
B4 OC0B
B3 OC0A
C7
D6 OC2B/ICP1
D5 OC1A
D4 OC1B
D7 OC2A
B6 OC2B
B7 OC3B
0V
NC
C1 SDA
C0 SCL
J14
14 22 0 1 2 3 4 5 6 7
8 9 10 11 12 13 20 21
J13
LT3652 /W R23 @
10k B=3380 THERMISTOR
0ºC < CHRG < 40ºC
R23
**10K
J21
12V SLA
TP7
13.278V:50.7k@40ºC
13.63V:100k@25ºC
14.068V:357k@0ºC
BATTERY
TP1
MPP IDEAL:ACTUAL
13.8:14.5V-15.2k@70ºC
15.8:15.7V-50.7k@40ºC
17:16.8V-100k@25ºC
19:18.7V-357k@0ºC
TP4
TP5
SOLAR
TP14
ICP3
17MA
J19
PL
0V
ICP1
17MA
J18
PL
0V
DIO
0V
22MA
2
3
4
DIO
0V
22MA
10
11
12
13
JMP 1-2:
CONNECT BAT
JMP 2-3:
FORCE VIN
J22
-BAT
+BAT
TP6
B=4250
100K
B=4250
100K
TP15
0V
+PV
J6
J5
J4
J3
J2
J1