

22MA
ADC5
0V
ADC4
22MA

22MA
ADC1
0V
ADC0
22MA

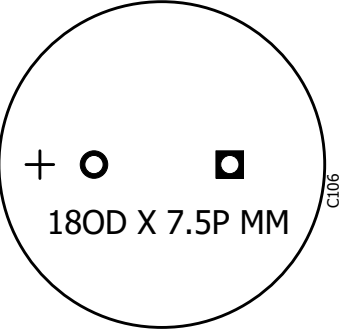
+5V
0V
BOOST
INPUT
BOOST

K1
K2
K3
K4
COM
COM
K5
K6
K7

31
30
29
28
27
26
25
24
NC
0V
A7
A6
A5
A4
A3
A2
A1
A0

J15
J16
JIN
0V
0V
5V
NC
RESET
IOREF
5V
NC

LATCHING
SOLENOIDS



J20
JMP NONE: 9V
JMP 1-2: 24V
JMP 2-3: 12V



VIN

SDA
SCL
MOSI
RESET
SCK
MISO
5V
0V

ICP3
B5
B2
D0
D1
D2
D3
B0
B4
B3
C7
ICP1
PL
0V
J4
0V
22MA
2
3
4

OC2B/ICP1
D6
D5
D4
D7
B6
B7
0V
NC
C1
C0
SDA
SCL

R25
LT3452 /U R23
10K B-3360 THERMISTOR
0EC < CHR6 < 40EC
J21
J22
JMP 1-2:
CONNECT BAT
JMP 2-3:
FORCE VIN

POWER MCU AT 13.1V
DISCONNECT AT 11.58V

12V SLA

36 CELL
STRING

13.278V:50.7k@40°C
13.63V:100k@25°C
14.068V:357k@0°C

BATTERY

MPP IDEAL:ACTUAL
13.8:14.5V-15.2k@70°C
15.8:15.7V-50.7k@40°C
17:16.8V-100k@25°C
19:18.7V-357k@0°C

SOLAR

-BAT

+BAT

B=4250
100K

B=4250
100K

0V

+PV

RPUBUS.ORG
14320^2
IRRIGATE7